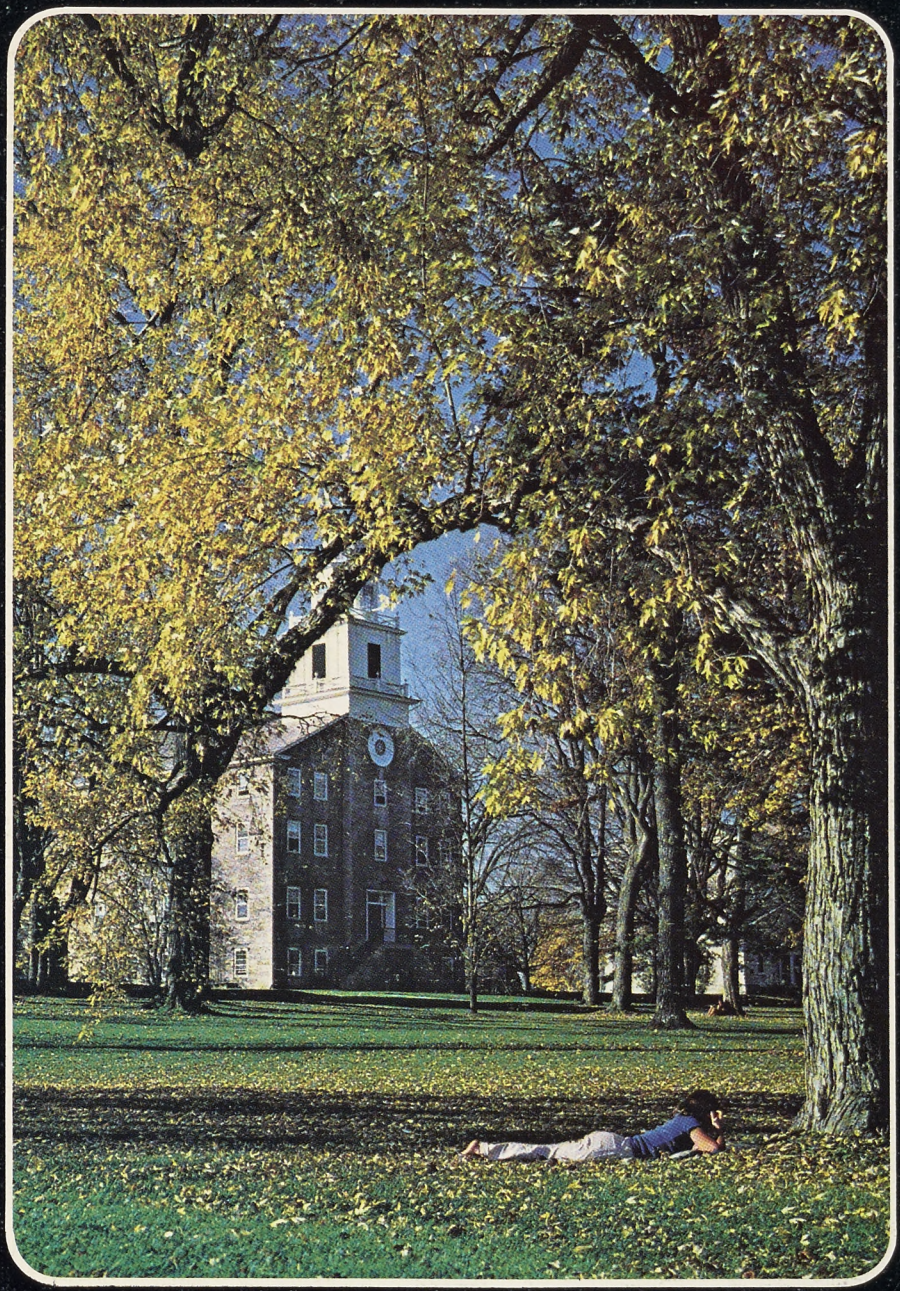

Middlebury College

Robert Frost lived for many years in the neighboring town of Ripton, Vermont. A close friend of Middlebury College, one of his earliest marks of public recognition was an honorary Doctor of Letters from Middlebury in 1924.

Gardner Cox's famous portrait of Frost is on display in the Robert Frost Room at the Egbert Starr Library of the College.

Something we were withholding made us weak
Until we found it was ourselves
We were withholding from our land of living,
And forthwith found salvation in surrender.
Such as we were we gave ourselves outright . . .

Robert Frost, *The Gift Outright*

From "The Gift Outright" from *The Poetry of Robert Frost* edited by Edward Connery Lathem. Copyright 1942 by Robert Frost. Copyright ©1970 by Lesley Frost Ballantine. Reprinted by permission of Holt, Rinehart and Winston, Inc.

Middlebury College complies with the 1964 Civil Rights Act, Title IX of the Educational Amendments of 1972, the IRS Anti-Bias regulation and Section 504 of the Rehabilitation Act of 1973. In so doing Middlebury College does not discriminate against any individual on the basis of race, color, sex, religion, ethnic origin or handicap in any of its programs or activities. The Dean of the College, Old Chapel, Middlebury College, Middlebury, VT 05753 (Tel. 802: 388-2858) is responsible for coordinating the College's efforts to comply with Sec. 504, Rehabilitation Act of 1973.

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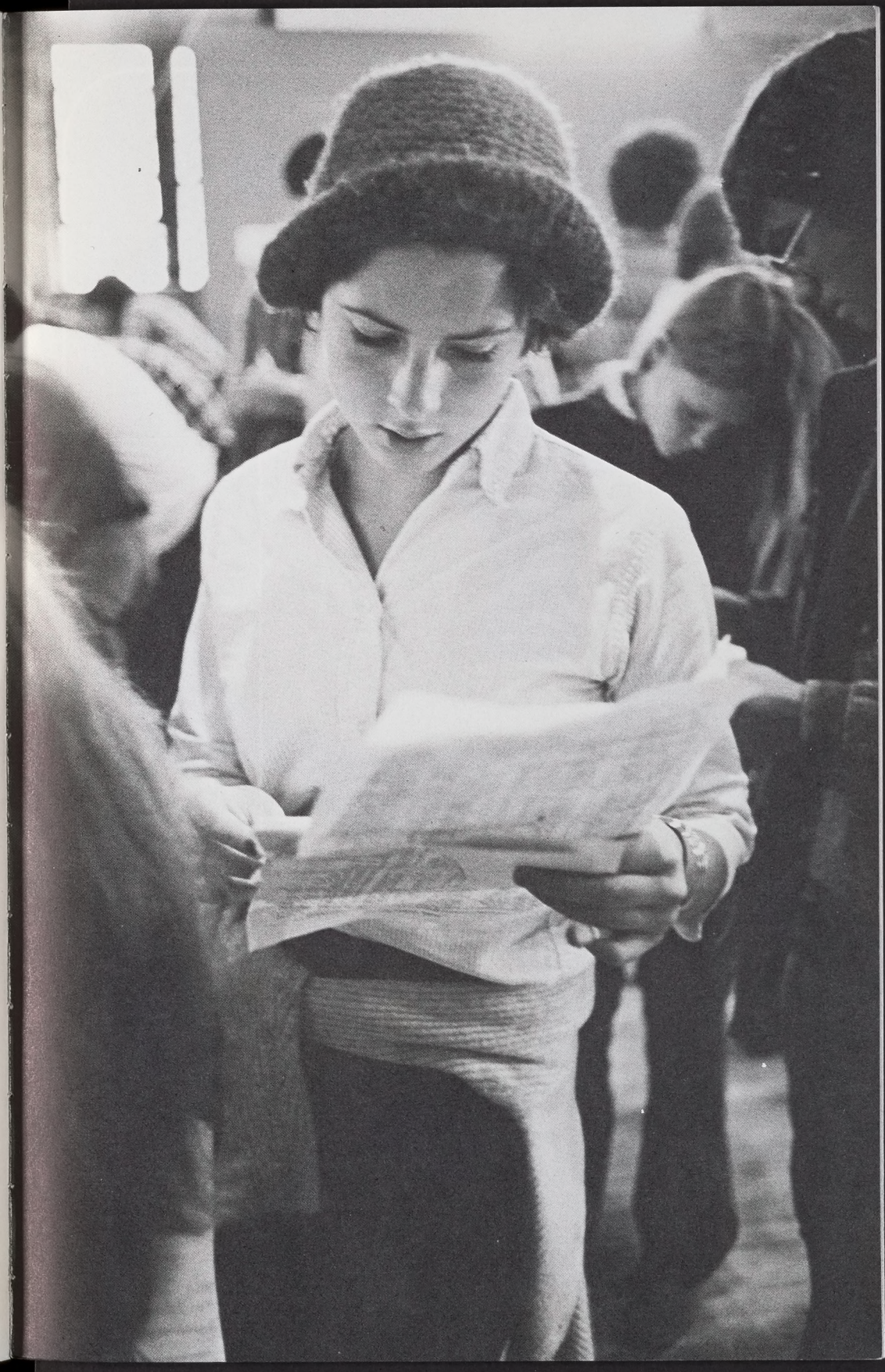

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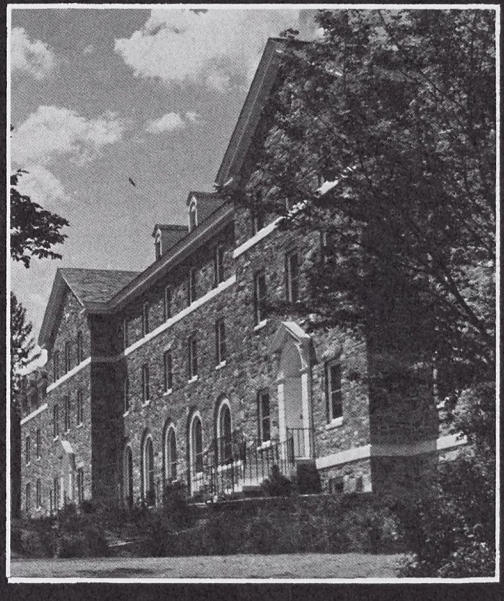
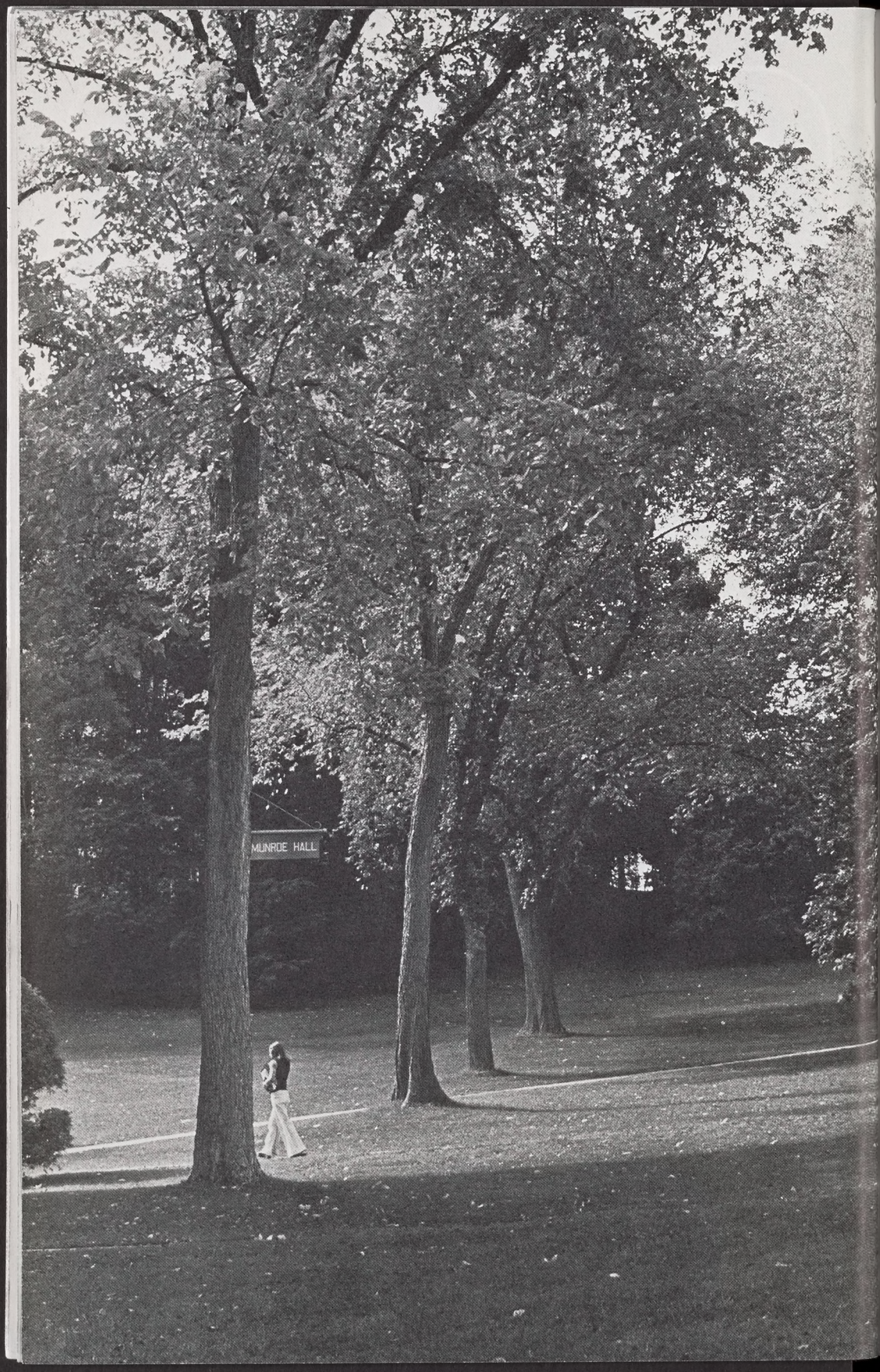


ABOUT MIDDLEBURY


MUNROE HALL

To Choose and Be Chosen

Something we were withholding made us weak
Until we found it was ourselves...

This booklet shows how students are chosen for Middlebury College and what the College offers to those who come to learn. But nothing Middlebury College gives to young men and women — programs, distinguished faculty, facilities for research — will be of any final value, unless those chosen are willing to offer "the gift outright" of their energies and talents. Accordingly, the Office of Admissions seeks students willing to yield the full measure of their capacity. In learning or sport, in the arts, in dedication to leadership and social service, Middlebury wants those who will give of themselves. This booklet will show what the College can give in return.

Middlebury is a liberal arts college in an area of the country which boasts an unusually high concentration of outstanding colleges and universities. In the spectrum of New England colleges, Middlebury is long in history (founded in 1800), well known for the quality of its educational offerings and among the most selective, not only in the area, but in the nation.

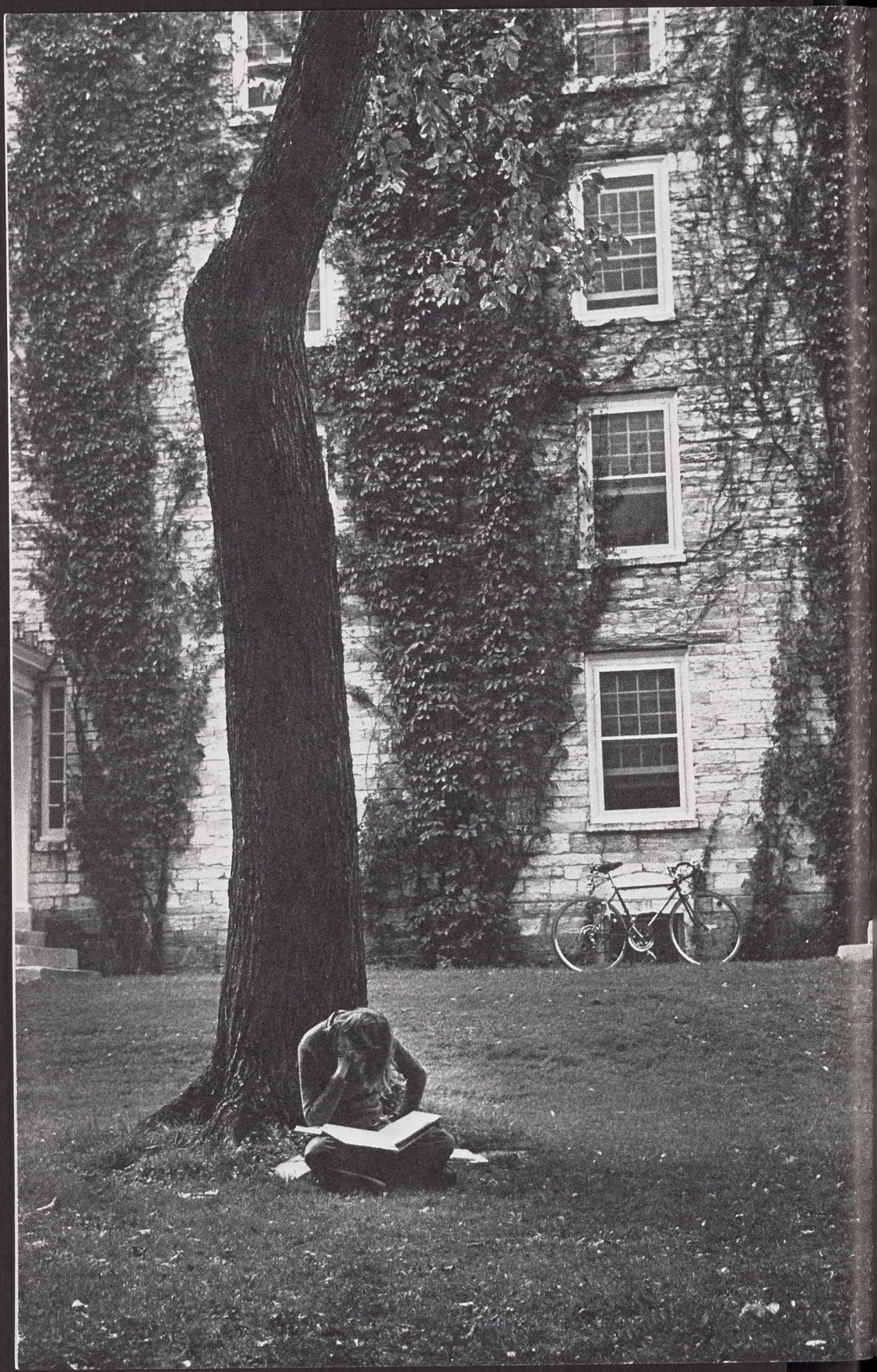
The residential liberal arts college offers a mode of education peculiar to the United States of America. Middlebury is a part of that tradition, and its philosophy of education is not radically distinguishable from that of other excellent liberal arts colleges. Commitment to the liberal arts distinguishes Middlebury College from the pre-professional institute because of the breadth and humanistic bent of the total curriculum. Residence in college facilities may be a more difficult practice to comprehend. It originally grew out of the concerns of inexpensive housing and "moral discipline." From the student's point of view the college dorm was a way station between home and complete independence. *De facto,* residential living offers a considerable "sociological" education in the variegated ways of humankind; the self-contained community of a residential college produces a certain intensity about "the college experience" that cannot be gained in a commuter college.

A majority of any entering class has picked Middlebury as first choice, but almost all have seriously considered other possibilities. Students looking for a smaller liberal arts college rather than the multi-versity may well travel the circle of traditionally well-known men's and women's colleges that dot the landscape of Massachusetts, Connecticut, Maine and the hinterlands of New York. If the search is for academic quality irrespective of size and social environment, Middlebury may be considered along with the major private institutions or the great state universities. Recently many old, established colleges have been in minor commotion because of the problems brought on by the sudden advent of women (or men) to a previously single-sex campus. Whatever turmoils coeducation produces, Middlebury at least has been dealing with them since 1883.

Although Middlebury is in fact highly selective, it is in keen competition with other colleges for students of exceptional promise. Why does a student accepted at a major university or another fine liberal arts college finally decide on Middlebury? Students cite as prime factors coeducation, size, academic program and, very frequently, geography. Located on the western edge of the Green Mountains in a small Vermont town, Middlebury exists in an especially attractive natural setting. Those

who rejoice in urban pleasures may not at first be enchanted with the great national forest, mountains and streams which surround the campus; but they can, if adventurous, explore the resources of the closest great city, Montreal, which is only two hours away by car.

The rest of this publication will describe the people, programs and facilities that compose Middlebury College. Although there is much that is common to other institutions of high academic quality, and although much has been borrowed from long association with the other New England colleges and universities, an independence born out of a splendid solitude among the rugged Vermont hills finally defines Middlebury. The College has been forced to be self-reliant because it could not take easy borrowings from close academic neighbors or major cities. The books, the gadgetry and the people which make up a college have been brought to Middlebury for the sole and single purpose of undergraduate education. It was not the natural and easy course to found a college in a Vermont village in 1800, it had to be a matter of conscious choice. Education at Middlebury continues to be a matter of choice, not drift. This will to education creates a particular spirit and pride which stamps Middlebury, for all it shares with others, as unique.



The Middlebury Student

In a recent guidebook to American colleges, Middlebury was listed along with a handful of other colleges and universities as among the most selective in the country. Ability to be selective is clearly reflected in the academic records of the entering classes. Classes normally average about 600 on the new SAT scores. Typically, over 90% of any class have had a B or better average in secondary school (over 50% have had averages of A- or better). As important as these factors are in determining a student body of the highest quality, the College seeks more than test scores or grade averages. Middlebury is looking for unique students who will be able to contribute something of their own to the diverse College community, as well as respond to the contribution of others. Students with relatively poor scores or undistinguished high school standing gain admission on the basis of a demonstrated drive to excel. An exceptionally talented student leader, a dedicated painter or performer, a young person who has shown a will to learn in the face of a below-standard school situation, or a superior athlete may be chosen because the College believes that they can add a special direction to the community while broadening their own personal strengths.

While Middlebury draws heavily from the area where it is best known, the nearby New England and Middle Atlantic states, more than 25% of the students come from areas over 500 miles from the College. About 10% of the student body come from west of the Mississippi. There is usually a scattering of foreign students; recent graduates have come from Ethiopia, Greece, Gambia, Japan, Norway, Nigeria and Nepal.

Middlebury's admissions policy is racially and religiously non-discriminatory, and all major religious faiths and racial groups are represented. The College plans for a 50-50 ratio of men and women students. In line with many other colleges, Middlebury has been making special efforts in recent years to recruit minority group students. The College's Financial Aid Office offers a substantial amount each year in aid to students who otherwise could not afford a Middlebury education.

Students who matriculate at Middlebury have high academic aspirations. In a recent survey of freshmen, less than 10% planned at that time to make the AB their terminal degree. About 40% planned a Masters degree, 20% a PhD, 15% a medical degree, and 12% a law degree. The range of

career plans for freshmen is wide: 9% teachers, 6% research scientists, 3% social workers, 5% business management, 3% artists, 3% engineers, and so on. These are typical freshman plans and there will be many changes before graduation. Students often choose a liberal arts college because they want to experiment with career plans and courses of study.

Any personality sketch of Middlebury students must be overbroad and highly subjective. Obviously they are bright, usually highly verbal and almost everyone seems to be "into something" — from rappelling to macramé. Fortunately with such a range of enthusiasms, students display extraordinary tolerance. There seems to be very little pressure at Middlebury to conform to any present image. Fraternity men, ballet dancers, rock faddists, violinists, electronic experts, and gourmets not only coexist but interact in a series of social patterns which defy normal stereotypes.

The Faculty

Approximately 80% of the Middlebury faculty involved in degree granting programs have received their Ph.D. degree or the equivalent terminal degree in their field. Harvard is most strongly represented on the faculty, followed by Yale, Princeton, Columbia and the University of Chicago. Faculty choose Middlebury because of the teaching opportunities it affords. Excellent faculty like to have excellent students, it is as simple as that. Here is how one faculty member characterizes teaching at Middlebury:

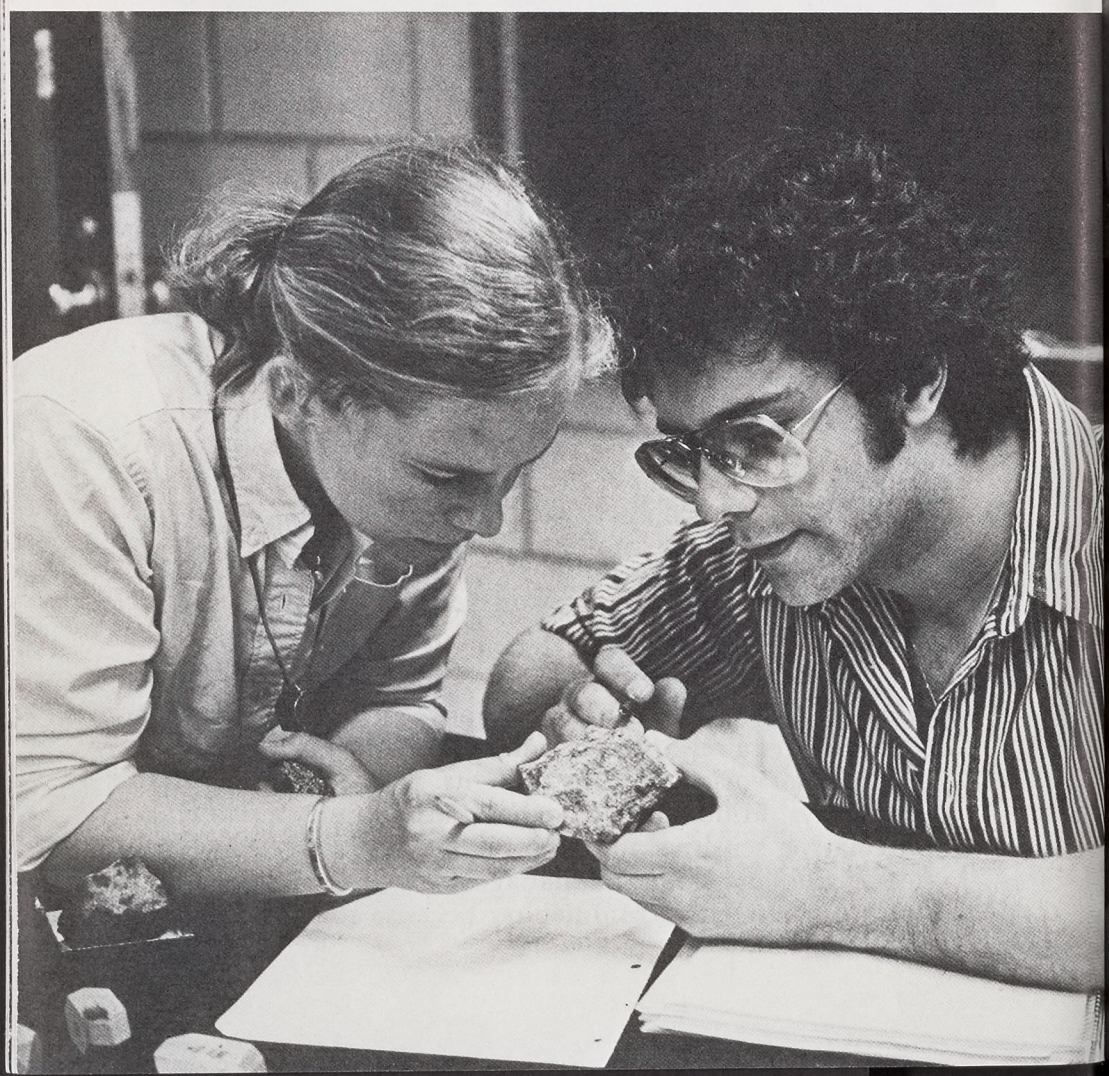
"Professors have a relationship with students that makes teaching at Middlebury an experience of joy and self-fulfillment. Many classes are seminars. Lecture courses with large enrollments have generally one hour of group discussion each week. Senior majors write a thesis under the direction of a professor. Because of the structure of learning, teachers and students communicate with each other in a personal and dynamic way. After lectures, students do not shuffle out of classrooms mutely and indifferently. There are always some deeply involved and responsive students who remain to ask questions and to dispute the instructor's interpretation or argument. Facing the challenge of such intellectually aggressive and critically alert young minds, professors cannot rest contentedly with the knowledge that they have acquired in graduate school.

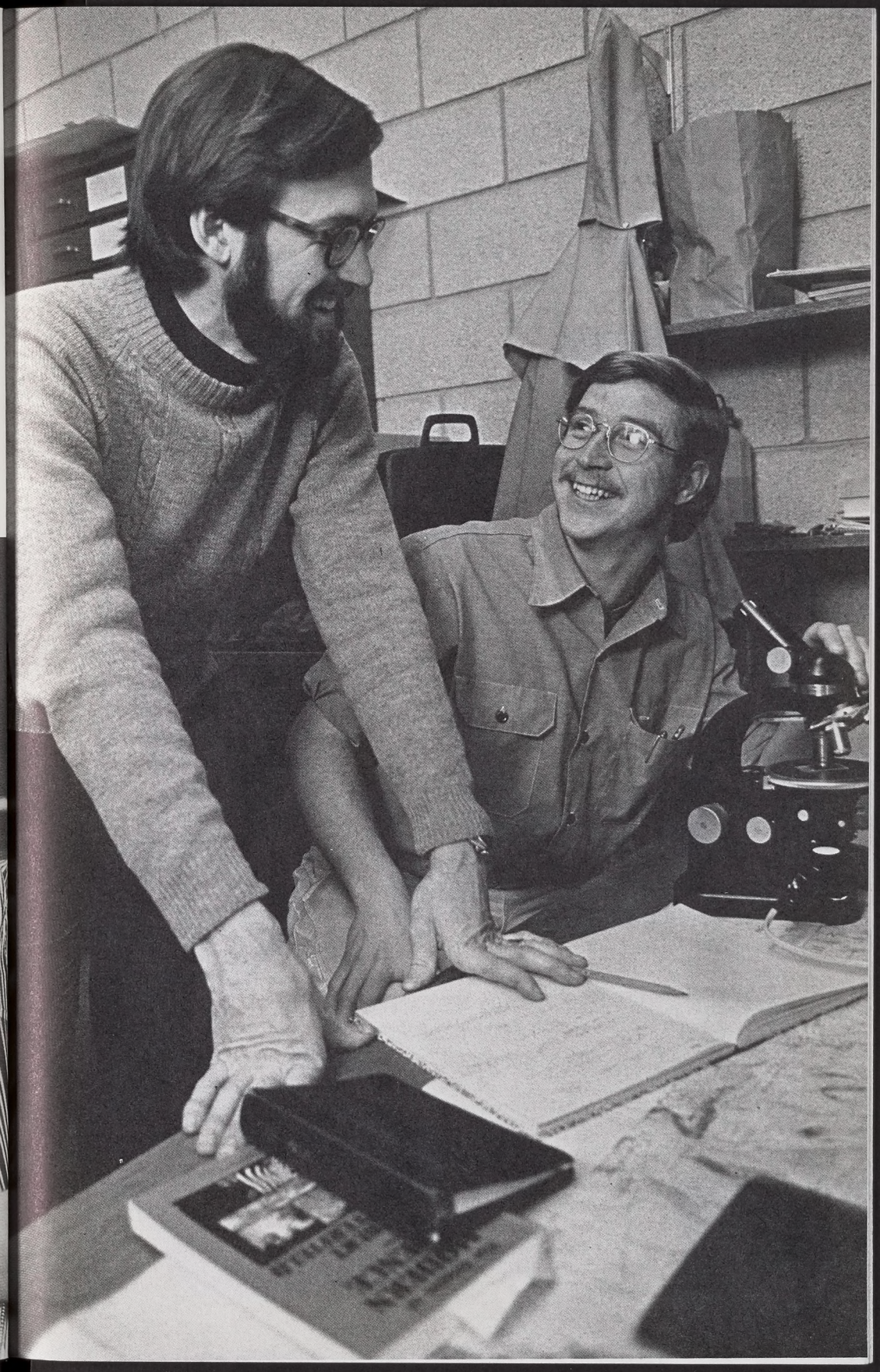
At Middlebury, teachers must be students, learning continually, posing new questions, looking at old questions from a fresh perspective, and re-evaluating old views. Because of close and frequent contacts with students as individual persons, teachers have the opportunity to observe them develop in mind and spirit from the beginning to the end of the semester, from freshman year to graduation. As a result, Middlebury professors have the wonderfully gratifying experience of knowing that they have made some contribution to the life of their students. What, above all, makes teaching at Middlebury a rewarding vocation are the special qualities that professors discover in the students. In strange and unexpected ways, Middlebury students can be so responsive and appreciative, sensitive and kind."

Just as students value the manageable size of the College, faculty are attracted to Middlebury because they know that

they can move directly into full colleague status in their department and have an immediate impact on program and patterns of teaching. It is a young faculty—the average age is 37. There are 145 regular or full-time-equivalent faculty appointments for a student-faculty ratio of approximately 13:1.

Middlebury College is preeminently a teaching institution. Faculty who come to Middlebury make a career decision which makes teaching the ultimate end of research and publication. The College believes firmly in the notion that research is vital to faculty in order that they may remain at the growing edge of their discipline — but research at Middlebury always leads back to the moment of confrontation in the classroom. One can gather some idea of the varied interests and accomplishments of the faculty from a random selection of recent publications.





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Horace Beck, *Folklore and the Sea,* Wesleyan University Press.

David A. Bennett et. al., "Single Wavelength Spectrophotometric Assay for Tryptophan Oxygenase," *Analytical Biochemistry.*

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David Bumbeck, Recent one-man shows of prints: Everson Museum, Syracuse; Hofstra University; Pensacola College. Invited to the Twenty-first National Exhibit of Prints at the Brooklyn Museum.

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Michael P. Claudon, *International Trade and Technology: Models of Dynamic Comparative Advantage,* University Press of America.

Nicholas R. Clifford, *Shanghai 1925: Urban Nationalization and the Defense of Foreign Privilege,* The Center for Chinese Studies, University of Michigan.

Paul M. Cubeta, *Twentieth Century Interpretations of Richard II,* Prentice Hall.

T. A. Davies, (with T. R. Worsley), "Sea Level Fluctuations and Deep-sea Sedimentation Rates," *Science.*

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Perry Hanson, "The Activity Patterns of Elderly Households," *Geografiska Annaler.*

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Edward Knox et. al., *A mon avis,* Harcourt Brace Jovanovich.

Marjorie Lamberti, *Jewish Activism in Imperial Germany,* Yale University Press.

C. Randall Landgren, "Preparation of Protoplasts of Plant Cells," *Methods in Cell Biology.*

Russell J. Leng, "Influence Strategies, Success and War," *Journal of Conflict Resolution.*

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VICTOR L. NUOVO, Tillich's *The Construction of the History of Religion in Schelling's Positive Philosophy & Mysticism and Guilt Consciousness in Schelling's Philosophical Development,* Bucknell University Press.

MICHAEL OLINICK, *An Introduction to Mathematical Models in the Social and Life Sciences,* Addison Wesley.

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What Is "Higher" in Higher Education?

A national educational journal recently recounted the story of a professor called in to mediate a dispute about a grade. A student in a certain physics course had been asked to explain how one could determine the height of a tall building by means of a barometer. The answer was given an F, and the student objected that, on the contrary, the answer was perfectly correct according to accepted physical principles. When the outside mediator was called in, he had to agree that the student had a point. The answer given was, "Go to the top of the building, tie a string on the end of the barometer, lower the barometer to the ground and measure the length of the string." Nevertheless, it was agreed that the student should be given a second opportunity to answer the question more straightforwardly.

After six minutes of the allotted ten had been used, the student had still not written anything on his paper, and the mediator asked whether he did not know the answer. "No," he replied. "It is just that there are so many answers, I am trying to decide which one to give." Near the end of the time period, he quickly scribbled down an answer. This time the instructor in the course capitulated, and the student was given an A. The answer was, "Take the barometer to the top of the building and drop it off. Time the fall and then by the well-known formula about the rate of acceleration of falling bodies you calculate the height." The mediator was fascinated with the ingenuity of the student and asked whether he really had other answers. "Of course," he replied. "Take the barometer out on a sunny day. Measure the shadow cast by the barometer and the shadow cast by the building, then knowing the height of the barometer, you calculate the height of the building. Or, a very simple and direct method, is start at the base of the building and measure the building by laying the barometer along the walls to determine the height in barometer-lengths. Finally, of course, the easiest method would be to go into the basement and find the office of the superintendent, knock on his door and when he answers, say to him, 'Here, I have this fine barometer which I will give you if you will tell me the height of this building.'" The student confessed, finally, that he also knew the standard answer but that he didn't feel that the function of education was simply to hand back memorized formulae and pat answers.

What is illustrated by this story is not mere cleverness, it is the considerable appreciation by the student of the fact that questions are a function of contexts which must be appreciated before any answer is "correct." What is "higher" about higher education is that it asks the students continually to appraise and evaluate not simply answers but the contexts of both questions and answers. The student is not merely an intermediary between the professor's lecture, a notebook and the final exam. In higher education he comes to appreciate "from above" the reasons why people ask certain questions in the first place, how they might have asked different questions and how any answer functions only when the origin of the question and its context are comprehended.

"What are you going to do at College?"

The conventional answer is, "I plan to study/major in History, Physics, French, etc." It is, of course, a curious answer. College students *do* all sorts of things—a few even actively non-study. It would probably be more accurate for them to say "I spend endless hours reading/memorizing Russian verbs/solving equations." Perhaps it would better convey the emotional quality of life to say "I am fascinated by Jung's theory/I am bored witless/I love playing soccer." Those matters will be discussed in the next section of this booklet, but for now the conventional answer can be addressed. Students do identify their college activity with their major field of study. At Middlebury, majoring in a single discipline is the primary requirement for graduation. So strong is the sense of identity with a departmental major that the student government was reorganized most successfully serveral years ago around a core constituency based on department majors rather than dormitories or class years.

About 40% of freshmen expect to change majors and indeed they actually do. This is an obvious good. There are many wholly new subject areas at the college level that no freshman is likely even to consider prior to coming to college. Philosophy, Economics, Sociology, Anthropology, and Psychology are normally begun at the college level. Many old scholastic friends like English, Mathematics, History, and Languages and Science may take on a range of complexity, depth, and subtlety which transforms them into qualitatively different subjects. Major choices based on secondary school experience are not completely trustworthy and students are actively encouraged to consider new options.

Since departments and departmental choice bulk so large in a student's self-identification as a college student, a brief presentation of the Middlebury academic departments and programs is as ready a means as any to describe the meaning of Middlebury to prospective students. The departments are arranged here according to the four divisions of the College: Humanities, Social Science, Foreign Language, and Natural Science. There is a brief sketch of the program, personnel, and "personality" of the Department, a listing of some current research interests of the faculty and a list of typical course programs. Concluding this section, there is a description of non-departmental majors and of certain academic programs which do not offer majors.

THE ARTS AND HUMANITIES

Why do students major in English or the other literary areas of the humanities—American Literature, Philosophy or Religion—since relatively few take up careers as poets, philosophers, or divines? Two reasons should be singled out for special comment. Both English and American Literature are many-faceted studies. They do not so much define a discipline as carve out a subject matter which is approached from many directions—critical, historical, technical, aesthetic and creative. In addition, these two literary disciplines share with their more ancient companions in the humanities, Religion and Philosophy, a particularly intense interest in individual human experience. The Social Sciences, as their name implies, are more concerned with man in community and culture, with the generalizable and formulable regularities of man's activity. The Humanities may focus on how it feels for the single man to live, like Hamlet or Jay Gatsby, with noble dreams in a declining age. Whether it is the poet giving verbal form to the sensitivity of an age, the philosopher searching out the foundations of the moral law and knowledge, or the prophet confronting the ways of God and man, the Humanities point uniquely to the most personal core of human experience.

The departments of Music and Theater Arts complete the roster of the Humanities. In these areas, too, personal, individual expression is central but they differ from the literary Humanities because of the emphasis on *making* in addition to verbal self-reflection and knowledge. Students in these areas—even those working in the more theoretical aspects of the subject—are expected to design, compose, create, or perform as well as know.

AMERICAN LITERATURE

This department is truly special. The very fact that there is a separate department of American Literature (instead of a sub-major within an English Department) is interesting, and the character and tradition of the department over a long historical period has given it a unique spirit. American Literature is first of all a notoriously "tough" major. The senior year comprehensives and seminar program are exceptionally challenging. The faculty are no less demanding on themselves and they display an unflagging enthusiasm for the subject matter which more than compensates for the rigorous professional discipline expected on students. No one completes the American Literature major without a high measure of self-esteem derived from real achievement. The philosophy of the department is to display American Literature in the broad interplay of general culture. The study, then, is not merely "high literary." It ranges from folklore through minor writers typical of a period to the major artists who transcend their times as much as they express them.

ART

Perhaps no major at Middlebury has seen such expansion — in terms of curriculum, space, and student interest — in the recent past as has the department of Art. In 1968 the Art Department moved into the handsome Christian A. Johnson Memorial Building — from a basement gallery to a spacious exhibition hall, from attic rooms to professional studio spaces. Since then, staffing has grown to include a painter, a print maker, a sculptor, and four historians of art and architecture. The art collection has developed to include fine teaching examples of virtually every major movement in art; and student interest has been so intense that already the department is searching out additional space.

The Art Department offers courses in both the history of art and in studio because they complement and reinforce each other. Art history provides a critical study of aesthetic ideas and works of art in context, while the actual experience of painting, drawing, and sculpting heightens and activates the student's sensibilities. Art can be a source of pleasure, but with understanding it can become even more. The aim of the program is to spark and develop this understanding and appreciation of the visual environment, whether as an introduction to later professional study in art or architecture or for rewarding personal intellectual discipline and enrichment.

Here the student can learn to interpret and respond to art as visual communication, gaining new access to distant and generally obscure cultures as well as enduring, meaningful, and absorbing insights into the contemporary world.

ENGLISH

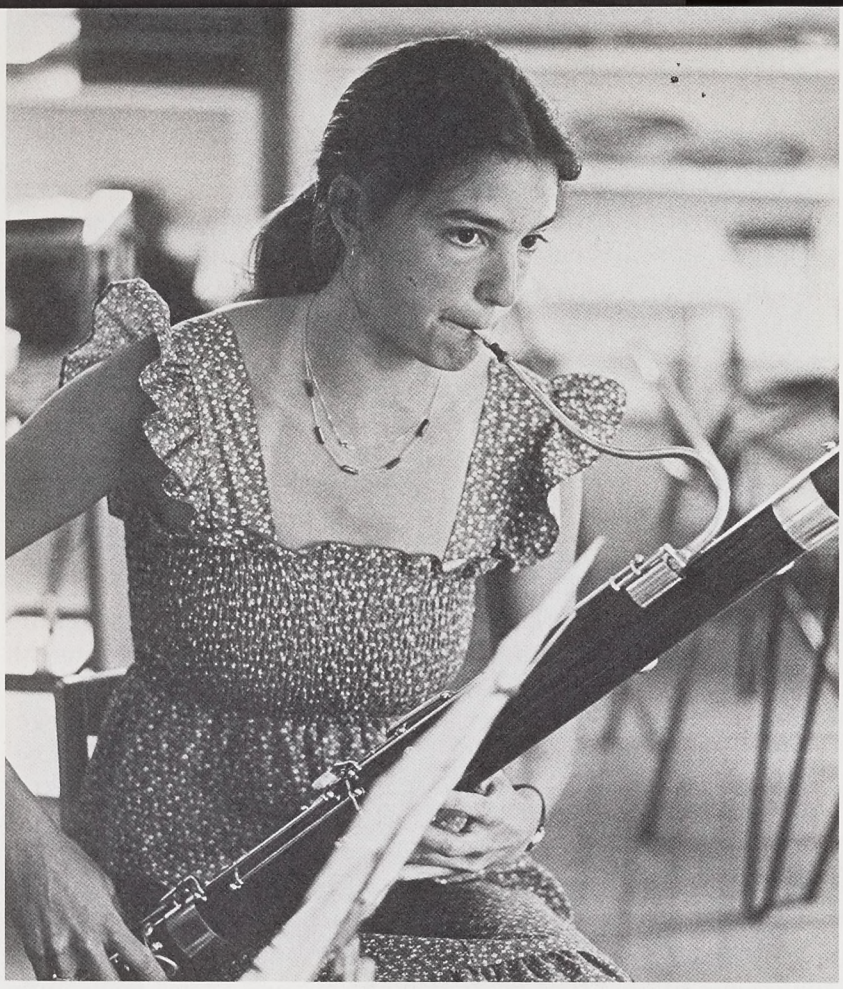
"The only end in writing is to enable the reader better to enjoy life or better to endure it." Samuel Johnson's pithy statement expresses both the pleasure and the seriousness of literary studies.

English is the largest department in the College both in terms of student majors and staff. It is the only department with which one can be sure almost every student will have contact since it bears primary responsibility for a freshman writing requirement. This requirement, like most things in the English department suggests Gerard Manley Hopkins' line: "Glory be to God for dappled things—." In fulfilling this single college-wide requirement, the student is usually faced with the following set of options: narrative fiction, lyric and narrative poetry, drama, history, classics, the essay, prose fiction, and poetry writing. The pied beauty of the English major carries on from there in the form of sub-groupings within the major: literature, dramatic literature, and creative writing (prose and poetry).

Why do students major in English? One low-level reason is that it is a subject that every student already knows something about. "Better bear those ills (or joys) we know than fly to others that we know not of . . . " But as with the speaker of that line there is also fascination with the dark mysteries of the self which can be particularly consuming to persons of college age. Literature confronts in an immediate and moving way the complexities of the human heart. Learning to criticize and analyze literature is not just an arid exercise in prosody. To be able to read and write accurately and self-reflectively is a major accomplishment which the English department hopes to foster while acquainting students with the range of sensibilities within the English literary tradition.

MUSIC

It is often difficult to perceive exactly what the philosophy of the music major at Middlebury is—but whatever it is, students seem to enjoy it immensely. Music may well be one of the most action-oriented departments at the College. Students are continually asked to *do* musical things, not just passively listen or scan the scores. In an elementary course everyone will construct



and perform a musical composition—standard instruments disallowed. Anyone who has sat through a multi-media performance of a Sonata for Ping-pong Balls and Oil-drums is not likely to forget it and, amazingly, the bare bones of musical composition become apparent. Doing music is the essence of the department's performance seminars which center on the classical musical repertoire.

The Dance program, also part of the Music Department at Middlebury, focuses on the study, theory and style of the ballet, modern, and jazz traditions. Repertory, performance and choreography are part of the advanced curriculum, and the College's Dance Company, *Coincidance,* offers students the opportunity to be involved as performers, teachers and choreographers, on the Middlebury campus and at other colleges, universities and organizations throughout New England. Members of *Coincidance* also teach dance in communities in the surrounding area.

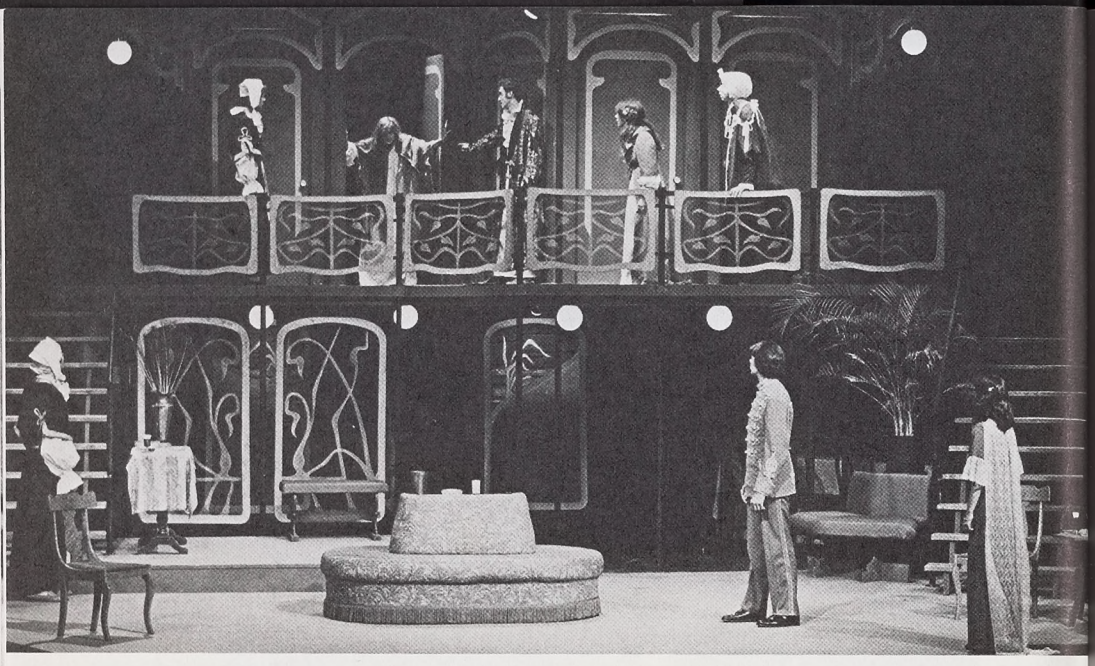
The diversity of the department's program reflects the

diversity of the faculty: a composer-theorist, a performer, a dancer, and two music historians. Surrounding the core of departmental courses there is a penumbra of performance activities. Instruction is offered in several instruments, in choir, orchestra, collegium, concert, and stage band. Organ instruction is particularly popular because of the presence of a gifted performer on the regular faculty and two new instruments: a baroque organ and a Gress-Miles 48 rank instrument. Music offers special opportunities for cooperation and "double effect." The electronic music studio is not only a place for composing in a modern idiom, but for theoretical analysis of musical textures.

PHILOSOPHY

Well over 80% of entering Middlebury students indicate that one of their primary aims in college is to develop "a personal philosophy of life. However, this interest does not translate immediately into large numbers of philosophy majors. A personal philosophy certainly may appear desirable but there are practicalities, after all. What do philosophy majors do when they graduate? As a matter of fact, philosophy is probably as fine a training for law school as any major, since it requires constant, dispassionate attention to intricate arguments on very complex and often emotionally charged issues. It is the apparent overwhelming nature of the questions which philosophy considers that often dissuades students from pursuing the subject. The questions are *so* important, that the kind of rational, "arms length dealing" which philosophy requires seems almost to deny the urgency of the issue. But one of the clear attractions of philosophy to its practitioners is the opportunity of discoursing in depth and at length on topics which most people consider too loaded for polite conversation.

Students intersect with the philosophy program in three ways. There are the majors who are asked to explore three central areas: ethics and social philosophy, philosophy of science and theory of knowledge, and history of philosophy. Students looking for a quick once-over of a discipline where tourism is never leisurely are offered a variety of historical and problem-centered courses. Finally, many students have their primary contact with philosophy through various "philosophy of" courses—art, law, religion, education, history, science, language, and social science—which relate to their major fields of study.



RELIGION

The study of religion cannot be confined in a single discipline. The Department of Religion presents the manifold of religious phenomena from various methodological viewpoints but two points of view predominate—the historical and philosophical. An historical approach presents the forms of religious life in their social and cultural setting, and attempts to discover elements of universal human significance inherent in these historical forms. The philosophical and theological approach inquires into the truth as well as the meaning of religious beliefs. Because of the interdisciplinary nature of religious studies, the department works cooperatively with other departments, in particular, Philosophy and Sociology-Anthropology, to develop courses for its program.

Very few students come to college expecting to major in Religion—and yet a significant number eventually do. This is not surprising. College years are a traditional time of testing for values and beliefs. Many students take a religion course "to give religion a last chance," to strengthen a faith, to have an opportunity to read the Bible or the Vedanta, out of curiosity or because they have heard good things about Professor X. Almost inevitably they are struck with the range and depth of religious phenomena, the intellectual and emotional power of the texts, and the interest and concern of the faculty in their subject matter. Very few who then decide to study further intend to be priests, ministers, or rabbis—though the College has produced graduates in each category—but if undergradu-

ate education aims to evaluate values, the study of religion can be central to that education.

THEATER ARTS

Students in theater arts courses have a unique opportunity to synthesize the whole spectrum of academic disciplines. Faculty in this department argue persuasively that their curriculum amounts to a whole liberal arts education in miniature: literature, psychology, artistic design, dance, music, electronics, engineering, and certainly some moral discipline to get through rehearsal and master the performance. The department offers a kaleidoscope of subjects, including courses in acting, directing, design, film study, dramatic literature, and playwrighting.

Performance provides a vital and rewarding aspect of the program. Students and faculty work together to stage approximately a dozen works each year. Productions occur chiefly in two theater spaces: the 400 seat Wright Theatre, which boasts one of the few computerized lighting systems in this region, and the Hepburn Zoo, which accommodates productions of experimental theater pieces. The close rapport and creative energy generated in these group experiences is characteristic of the department.

Recent productions: *The Threepenny Opera, Death of a Salesman, Company, The Tempest, The Cherry Orchard, A Raisin in the Sun.*

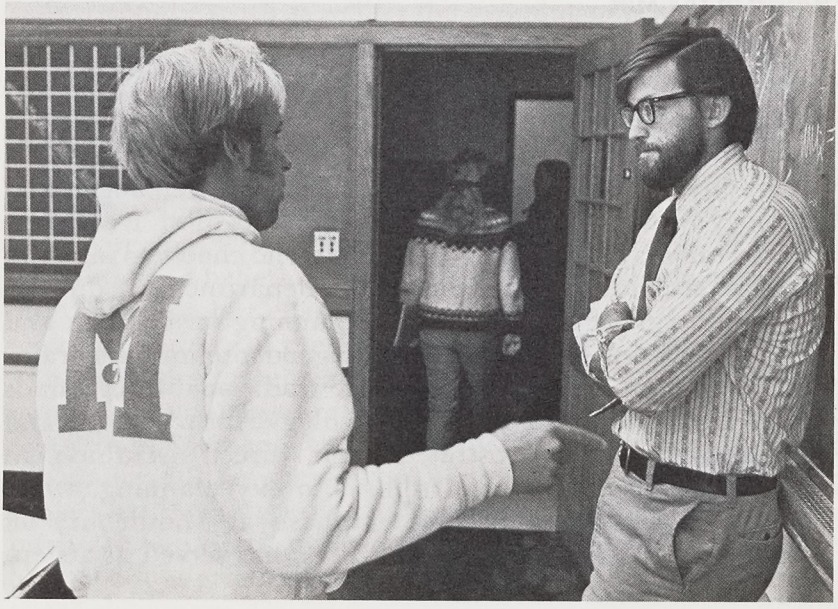
SOCIAL SCIENCE

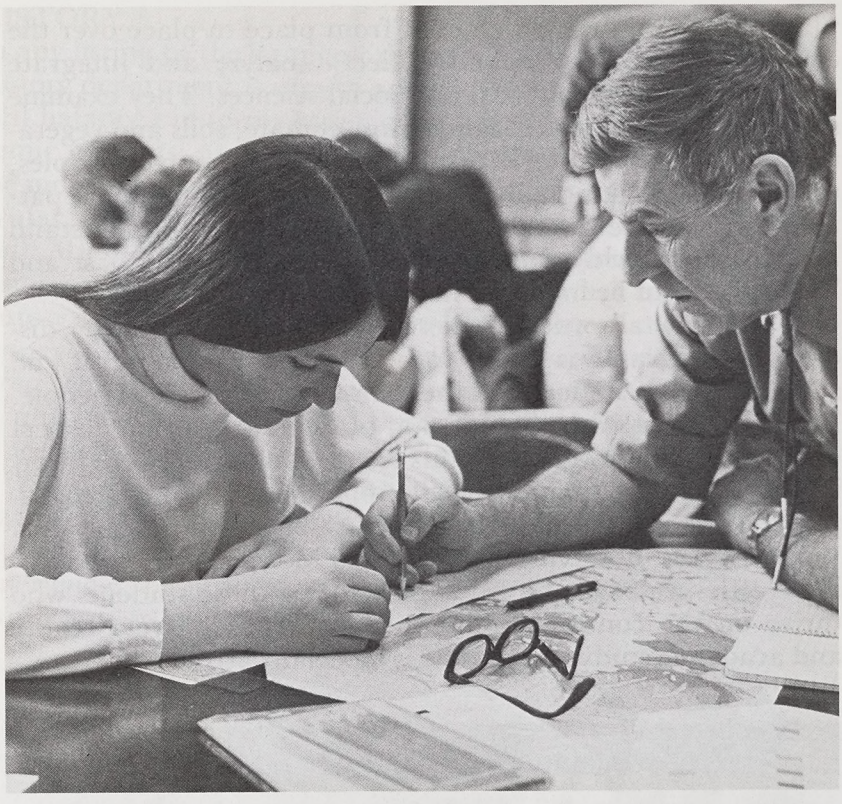
Perhaps more than any other area, the social sciences form the mainstay of the undergraduate curriculum. Economics, Geography, History, Political Science, Psychology and Sociology-Anthropology — are among the most frequently selected majors in the College. Students who choose to major in the social sciences often see the various departments as directly relevant to career interests. Those planning on business and management may see Economics as good preliminary training. History and Political Science are traditional foregrounds to the law and public service; Sociology-Anthropology and Geography have demonstrated their direct usefulness in everything from educational reform to city planning, while Psychology, with its particular emphasis at Middlebury on precise work related to the life sciences, has served as a stepping stone to medicine.

Without a doubt the departments in the Social Science area have provided a good undergraduate base for the careers indicated, but most majors stay with a discipline because of its sheer intellectual appeal. Many students have preconceptions about the character of the social science disciplines and almost invariably are surprised to discover that these preconceptions were wide of the mark. It is this sense of discovery, rather than narrow careerism, that should best sustain a choice of major.

ECONOMICS

In the most recent years, Economics has been the "in" subject not only at Middlebury but across the country. A recession in the market for teaching, the extreme pressure for law and medical school admission, and the general economic condition of the country seem to have directed students to a subject area which seems clearly related to a possible career in business. The Economics department has been delighted by the surging enrollments but would probably give a word of caution/Economics is not a Business major. Middlebury has established arrangements which permit the College to place highly qualified students in graduate programs of Business after only three years at Middlebury and it is expected that most of these will be Economics majors—nevertheless the caution stands. Economics is probably the hardest of the so-called "soft" sciences. No other social science has developed such sophisticated analytical tools or been as ambitious in promul-





gating general theoretical laws.

Economics is a relatively new science which comes into being only with the creation in modern times of a market economy. Economic thinkers from Smith to Keynes have been important shapers of public policy. As there is no reason to believe that economic argument will play any lesser part in the future, current student interest must be welcomed as a national asset.

GEOGRAPHY

One is tempted to make a bad pun and say that Geography tells you "where it's at." The reason that is a pun, rather than a literalism, is that Geography has a particular "with it" following at Middlebury. Most students' image of geography comes from grammar school where one tried to remember the principal rivers in Argentina and the state capital of Vermont. Not so at the college level. As the program is described in the college course catalogue: "The essence of geographic study is the analysis of phenomena in a spatial context, especially the 'where' and 'why' of human activities. In their attempt to ex-

plain the differences which exist from place to place over the earth's surface, geographers collect, analyze and integrate data from both the physical and social sciences. They examine such physical elements as landforms, climate, soils and vegetation and interpret them in terms of the distribution of peoples, their ways of making a living and the social and political patterns which have developed. Geography seeks to understand how present world patterns have evolved from the past and how they might be modified in the future."

That is a tall order! If there ever was an integrating discipline, Geography appears to be it, combining natural and social science to understand the manners and mores of people. But it is not just the synoptic and obviously "relevant" aspect of the department that accounts for its popularity. Geography is a particularly "hands-on" discipline. Middlebury geographers seem to be everywhere. Students may be off in Sicily on a Winter Term, observing the Montreal Metro system or counting traffic in downtown Middlebury. For those students who thrive on the continuous interface between concrete reality and academic study, geography is especially attractive.

HISTORY

In any listing of the strongest departments at Middlebury, the History department is sure to appear. The staff is exceptionally well balanced in terms of seniority, teaching experience, academic interests, and personalities. American history has been the most popular sub-area in the department, but there is particular strength in modern European and Asian history as well. Middlebury has a long-standing commitment to African history and in recent years Russian history has been added. History seems to offer students a balance of normally separated virtues—large drama combined with care for detail, moral interest combined with empirical research. Members of the faculty have been at various times described as "passionately concerned," "encyclopedic" and "incandescent."

History has a carefully constructed program which assures that every student will be able to pursue senior research in depth. This research may be a traditional thesis, a teaching experience, an historiographical or bibliographical essay, a translation project, or research in oral history.

POLITICAL SCIENCE

"Political Science defines, describes, explains and evaluates political phenomena. It does so with a number of disciplines or habits, including science, philosophy, history, and prudence. . . . The curriculum as a whole is designed to meet the demands of thoughtful citizenship, to depict in use a number of the elements of the liberal arts and sciences, and to prepare students who intend to pursue further work in either graduate or professional schools." This is the official *Course Catalogue* description of the Department. Anyone at Middlebury would know immediately from the language alone that the statement was written by the department's philosophical chairman. The key words are "discipline," "habit," "prudence," "thoughtful." Given the passion and prejudice of the political world, these words may seem very much out of place. "Political Science," as its very name suggests, is the study most informed by hope in the college curriculum. Its aim is to bring rationality to the tangle of society and government.

"Rationality" is conceived in two ways in the discipline and both are represented in the department: On the one hand there is detailed empirical study of political phenomena—augmented in recent years by extensive use of computer data and modeling; on the other there is the close, analytical examination of the central philosophical concepts used to ex-

plain and evaluate political action. From time to time, it has been suggested that the department might well split into a political philosophy department and a political "sociology" department. The departmental faculty (and students) usually recoil with horror at the notion since they find the combination of high theory and hard fact intellectually fruitful.

PSYCHOLOGY

Psychology is a discipline that draws from both the social sciences and the natural sciences in its quest to understand the varieties of human behavior empirically. An appropriate undergraduate program in psychology will focus in one part on certain processes: e.g., learning, perception, attitude, or choice behavior, and the controlled study of the variables relevant to them. Another part will focus on the abnormal or disturbed manifestations of these behaviors. A third part will focus on intra-individual processes which mediate these behaviors, whether normal or disordered.

Course offerings in psychology at Middlebury College serve at least these three functions and give the student related practicum or laboratory work where such is relevant to the course material. Many students are surprised by the "scientific" bent of psychology at Middlebury. Popular images of "psychology" as an instant key to and sudden cure of, the troubled human self, distort the theoretical and practical complexities of the subject. Psychology is truly a young science although its rise has been extraordinary in this century. The Department's interest in precision, control, and experiment reflects a legitimate desire to substitute validated truth for mere conjecture and opinion.

SOCIOLOGY-ANTHROPOLOGY

Sociology-Anthropology has the distinct advantage of combining exposure to two disciplines within a single department. A special effort is made to help students to capitalize on these two complementary perspectives. Students are encouraged to study comparatively those social institutions covered by both anthropologists and sociologists: family and kinship, stratification and inequality, and political behavior. Students can usually devise their own program of area studies using the resources of other departments. Sociology-Anthropology offers course work in Latin America, the Far East (especially China and Japan), and North American Indian cultures. Several

courses deal with American society and its social problems: education, population, deviance, and majority-minority relations.

The department blends both the scientific and humanistic dimensions of Sociology and Anthropology. For the science-oriented, there is the opportunity to engage in original research or to perform analyses on data bases already available on the computer. For the humanities-oriented, there is the opportunity to consider the human implications of social-science research. Field work abroad and original research are encouraged.

In career terms, the large majority of professional sociologists and anthropologists are connected with institutions of higher education. Sociology-Anthropology is a particularly beneficial liberal arts major for the student contemplating a career in any field involving extensive participation with other people—especially those representing different cultures at home or abroad. This course of study leads naturally into such careers as law, elementary and secondary education, social service overseas, government, social work, business and diplomacy.

FOREIGN LANGUAGE

Middlebury College has an international reputation in foreign language studies. Throughout the United States, Canada and Europe, the standards of language studies at Middlebury have been highly acclaimed and recognized by graduate and undergraduate institutions. The College offers a much wider range of foreign language courses on an undergraduate level than at almost any other institution in the country. Some of these are offered on campus during the regular academic year in Chinese, French, German, Greek, Italian, Latin, Spanish and Russian, or during the summer when the seven Language Schools are in session, or at one of our five schools abroad from September to June. All such courses carry credit toward the Bachelor of Arts degree and are open to language as well as non-language majors.

Most language majors will wish to take their junior year at one of the College's schools in France, Germany, Italy, Spain or the Soviet Union, but it is not unusual for political science, biology, art history, and majors in other disciplines to spend part or all of their junior year in Florence, Paris, Madrid, Mainz or Moscow. Languages at Middlebury are innovative and creative, offering the opportunity to students not only to increase their knowledge of the spoken language but to have direct contact with the cultural tradition of the country of their language, either through specially designed courses on campus, participation in the summer Language Schools, or foreign study.

CHINESE

Middlebury has recently introduced an undergraduate program in Chinese to complement and expand its very successful long time summer program in that language. Courses are offered in introductory and secondary levels of Mandarin, and the College also offers courses in translation covering major literary and ideological movements in Chinese culture. Students may pursue an expanded program of Chinese studies by coordinating undergraduate work with the Middlebury College summer program. Chinese language augments a constellation of course materials in Asia offered in History, Religion, Art and Anthropology.

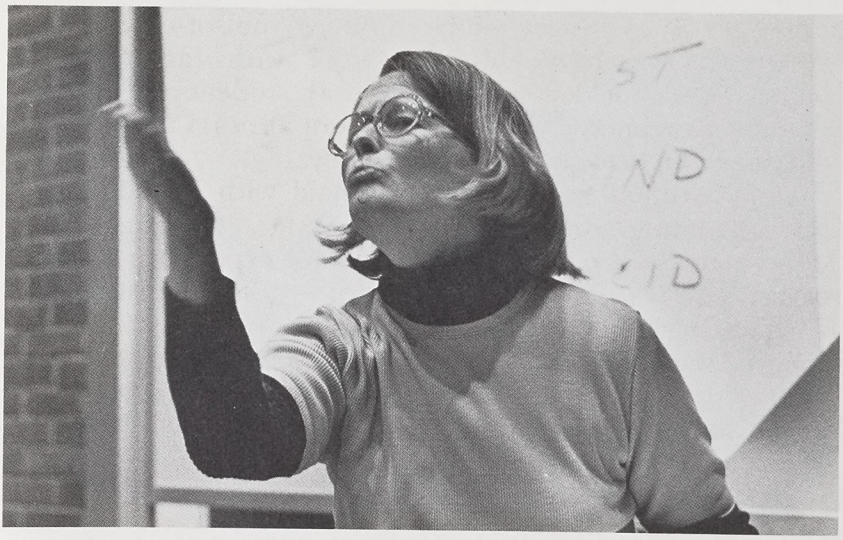
CLASSICS

The Classics Department offers students the opportunity to study great works of Classical literature, history and

philosophy in their original languages as well as in English translation. Beginning courses in Greek and Latin introduce students very quickly to authentic selections from such authors as Homer and Plato, Cicero and Virgil, as well as the New Testament and medieval poetry. The department also offers courses on a wide range of topics from Roman Literature to Greek Science which are taught entirely in English.

FRENCH

The French Department seeks to develop in its students the linguistic ability to pursue in French their various personal and intellectual interests. Intensive beginning and intermediate courses bring students up to a level where they can begin to branch out, and students with more advanced preparation may take upper level courses in language, literature and civilization. Most recently, members of the department have been developing courses in the French film, women's studies and comparative literature.



In addition to the program of study offered by the French Department, there are varied extracurricular activities, centered in the Chateau with its forty French speaking residents. In the Chateau dining room members of the French Department faculty eat on a regular basis with students, discussing not only their course work but perhaps a recent film, preparation for the annual French play, or an upcoming visit to Montreal.

An opportunity for foreign study is also provided through the Junior Year program in Paris. Each year many Middlebury students, usually a 50 - 50 mixture of majors and non-majors, attend the School in France. The first few weeks, beginning in early September, constitute an intensive preliminary session of language work and an introduction to contemporary France. Upon completion of these preliminary courses and through consultation with the resident Director, students select from a wide range of courses including art, history, language, linguistics, literature, philosophy, political science and sociology.

GERMAN

German is not a language which many entering students have already studied, or in which they plan to major. It says something about the Middlebury German Department that it produces a very respectable number of German majors. Key to their success is a very carefully thought out, witty, and imaginative set of elementary teaching materials devised by the staff (a best seller nationally). These materials are then set into a

unique teaching pattern which minimizes out-of-class preparation but maximizes intensive drill with faculty. This obviously calls for dedication from both student and teacher but the excess energy of the department appears to make the whole exercise both profitable and enjoyable.

The Germans were first in the field with a Middlebury overseas undergraduate program at Mainz. The program is deliberately limited to a single term since experience strongly suggested to the department that most of the linguistic gains are made in that period. The relationship with the University of Mainz is unique in that Middlebury students are permitted to enroll directly in regular courses. Recently, through Mainz, the department has begun to import from the second German TV network television programs for experimental teaching purposes.

RUSSIAN

Middlebury's Russian Department offers a varied curriculum covering language instruction on beginning, intermediate and advanced levels as well as a range of courses in literature, civilization and culture. The program of each student may emphasize either the language, literature, culture or civilization and is planned individually in consultation with the chairman. In addition to the academic year activities in Russian studies with opportunities to explore Soviet contributions to the literary world, the College has an established nine week summer Russian School that provides students with intensive study in beginning, intermediate and advanced Russian as well as advanced courses in culture and civilization offered during the six week session. The Russian experience may also be broadened through foreign study. Middlebury College now sponsors its own semester-length program at the Pushkin Institute in Moscow, open to qualified students who have completed three or more years of study of the language.

SPANISH-ITALIAN

Spanish — the twofold aim of the Spanish Department is to develop in its students a full command of the language as well as a mastery of the rich literature and culture of the Hispanic peoples. The introductory courses concentrate on a thorough and rapid development of language skills that will enable the student to become involved in advanced courses in language, literature, and culture and civilization. In addition to the diverse courses offered by the Department, juniors may

participate in the Spanish School in Madrid. Majors as well as non-majors are encouraged to take advantage of this opportunity to widen their educational horizons by studying in one of the Spanish-speaking countries abroad. Middlebury also offers intensive language instruction at the beginning, intermediate and advanced levels as a part of the summer sessions of the Spanish School. In addition, a number of graduate courses are open to qualified undergraduates during the summer. The Spanish Club organizes various activities throughout the academic year, and students have the opportunity to dine with faculty members at the Spanish tables in the Chateau.

Italian — the Italian courses are designed to meet the needs of Italian majors, other foreign language majors and students from related fields such as art, literature, music and sociology who are working toward a double or joint major or concentration. The aim of the program is to develop, not only a working command of the language, but involvement in the Italian contribution to literature, art, music and philosophy. In recognition of the needs of the college community at large, the Department also offers courses in translation. The Italian experience may be further enriched through participation in the summer session of the Italian School. Intensive instruction

is offered at both the beginning and intermediate levels. Qualified students may also participate in advanced graduate courses offered at the summer session of the Italian School. An opportunity for foreign study is provided through the Junior Year Program in Florence, Italy. Majors and non-majors actively participate in either the one-semester or full-year programs in Italy under the guidance of a resident director.

NATURAL SCIENCE

Since the dedication of a new Science Center in 1968, Middlebury has continued to improve its science facilities. A new academic computing center was installed in Voter Hall in 1975; Warner Science, the home of psychology, geography, mathematics, and botany, was completely renovated in 1978; the Science Center library and computing facilities were redesigned and renovated in 1979. Middlebury offers something that is not found in a large research oriented university; a program geared in size and philosophy toward undergraduate teaching and undergraduate participation in research. All science programs at Middlebury are conceived both as self-sufficient undergraduate majors and as preparation for postgraduate work. An A.B. program in science at a major graduate or research university may be for undergraduates in name only—in effect it may be a total pre-PhD program in which the weight of the faculty, facilities, and curriculum is directed toward the state of the discipline and graduate programs, rather than the instruction of undergraduates. At Middlebury, senior members of the science faculty teach at all levels from elementary to advanced. Undergraduate science students work side-by-side with senior professors in path-breaking research that normally is reserved for graduate or post-doctoral students. For the dedicated science major the results, as well as the experience, can be very gratifying—a senior paper published in *Science,* or a grant from the National Science Foundation for summer research in Alaska.

If the arts and humanities have an immediate appeal to many students because of their relevance to personal values, the sciences present a particular challenge to a student's objectivity and discipline. There is an austerity about the sciences —a rigorous and exacting discipline of observation and imagination that makes demands of both student and teacher. A major in science can provide a sound basis for further work in any career that requires the capacity for analysis and disciplined thought.

BIOLOGY

Traditionally one of the strongest and most popular departments at Middlebury, biology offers introductory and advanced courses in a wide range of fields, including ecology and ethology, physiology of plants and animals, cellular and developmental biology, genetics and microbiology. Emphasis on laboratory and field work and on scrutiny of the primary literature is accompanied by a commitment to interaction between individual students and faculty members. The curriculum provides a sound liberal arts education in modern biology as well as preparation for graduate work in medical or other professional or para-professional schools, or in graduate programs in biology. In addition to the straight major, interdisciplinary programs are offered in conjunction with the Environmental Studies and Northern Studies programs and the departments of chemistry and psychology.

The department is particularly proud of the scholarly activity of its faculty members, and of their willingness to nurture undergraduate research. It is not uncommon for the results of undergraduate projects to be presented by students at national professional meetings. Current faculty research projects are wide ranging: the locomotion of scorpions, efforts to fuse and study plant cell protoplasts, studies of extranuclear inheritance in the parasitic wasp, *Mormoniella,* investigations of changes in protein organization during differentiation of milk fat membranes and underlying shape changes in erythrocytes, analysis of energy flow in the High Pond watershed.

CHEMISTRY

Ours is a chemical age. The rate of accumulation of new knowledge, from discoveries that range from new fertilizers and synthetic fibers to life-saving medicines, doubles every eight to ten years. The growing list is so staggering that the hopeful chemist-to-be must wonder fearfully, "How can I ever learn enough to do anything useful in this field?" The education of a chemist is, in fact, a lifetime undertaking. But Middlebury can help to make dreams realities.

The purpose of the chemistry program at Middlebury is not to stuff each student with countless facts to be remembered upon receipt of the proper signal; instead it emphasizes the theories and concepts that make up the logical framework for relating a multitude of otherwise disparate bits of chemical information. This framework is developed by a core of six

semester courses covering the four major areas of chemistry—organic, inorganic, analytical, and physical—and chemistry majors usually complete it by the end of their junior year. At the same time, the students are learning laboratory skills and gaining "hands-on" familiarity with modern instrumentation. During the upperclass years students elect a number of advanced chemistry courses best suited to their individual interests. The undergraduate experience culminates for most students in an independent research project under the direct guidance of one of the chemistry faculty.

The department is proud of the record established by its graduates. In recent years over two thirds of the chemistry majors have succeeded in demanding professional programs in medicine or dentistry and in graduate programs in all branches of chemistry. Others have done as well as industrial chemists or as teachers of chemistry. Somehow students have found the lure of the laboratory with its intellectual challenges and the exhilaration of new discovery to be irresistible.

GEOLOGY

Few colleges are so favorably situated for the study of earth science. Located in the midst of the most classic and complex geologic regions of North America, the department takes ad-

vantage of this setting by using it as an outdoor laboratory for teaching and research in geology and geophysics; Lake Champlain similarly serves work in Oceanography.

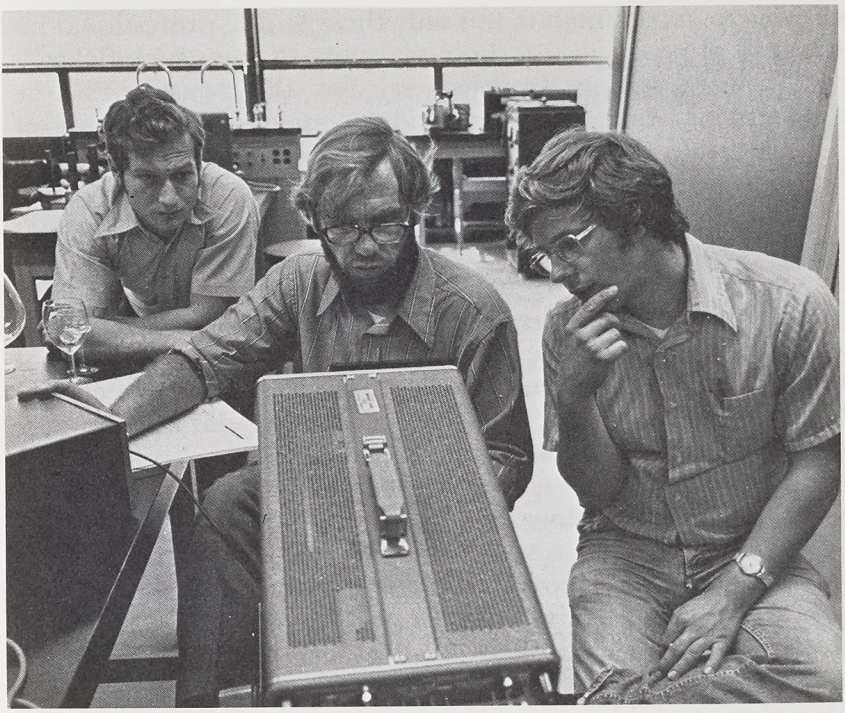
Geology at Middlebury is unabashedly a research program. The department believes that the business of science is to explore what is not known. Content is a means to an end and courses are built around single or multiple problems. The field problems usually are close to campus. The local bedrock history is one of shallow and deep-water sedimentation, folding and faulting of the layers, and metamorphism and igneous intrusion. In one new course, students decipher the bedrock geology of Vermont by studying a group of the field areas and pursuing the inquiry by lab study of rock samples. Surficial geology is studied in field areas where students can examine sediments deposited by glaciers, or on the margin and floor of ancient "Lake Vermont." Some of these sedimentary units are studied in bottom samples from present-day Lake Champlain, collected by students using the department's oceanographic vessel.

The diverse research interests of a very active faculty are reflected in the four introductory courses, each of which concerns an aspect of earth science: plate tectonics and mountain building; oceanography; environmental geology; and planetary features due to impact cratering and volcanism. In each course, emphasis is placed on teaching the student to function as a scientist. To quote a faculty member: "The main difference between professional research and student work is how much can be accomplished in the time available and how detailed the observation can be; the same questions and excitement are there for all of us."

MATHEMATICS

Middlebury men and women meet mathematics on many paths. The Mathematics department draws students with a wide spectrum of interests, from prospective majors in the natural and social sciences, almost all of whom require mathematics, to those who wish only to sample the flavor, content and spirit of the subject. Whatever their reasons for beginning, many continue as majors after discovering that only the challenge of mathematics offers the intellectual excitement they seek.

A wide selection of courses is available. Freshmen may elect any of several different courses depending upon their interests and previous achievement. Calculus draws the largest enrollment, but interest in first courses based on probability,



linear algebra or the foundations of mathematics has grown substantially. Advanced Placement is offered to a sizeable portion of each entering class. Electives run the gamut from the abstract (modern algebra and topology) to the applied (operations research, statistics) and from the classical (complex analysis, number theory) to the modern (modelling, graph theory).

Graduates take almost as many different directions as there are individuals. Recent majors are attending graduate school in pure mathematics, biostatistics, business, medicine, and law. Others are employed as computer scientists, actuaries, technical writers, teachers and government economists. Professional opportunities for those with mathematical backgrounds are expanding every year.

PHYSICS

The discoveries of physics have profoundly altered both the physical circumstances and philosophical world view of twentieth century humanity. It is the fundamental science. The entire physical universe, from subatomic particles to galaxies, baseballs to black holes, is described by the laws of physics.

The Middlebury Physics department recognizes the diverse appeal of physics and provides a major program flexible

enough to accommodate not only those with a professional interest in physics but also those planning to enter such fields as medicine, teaching, or business. For the nonscientist the department offers two foundations courses, "The Nature of Things" and "Introduction to the Universe," and a "hands-on" experience in "Electronics for the Intimidated."

Upper level physics courses provide depth in such fundamental areas as quantum mechanics and electromagnetic theory, in fields of current research such as astrophysics, and in applications including electronics. Senior physics majors apply their knowledge to an experimental or theoretical research project. Recent senior project topics have included studies of supernovae using x-ray satellite data, computer modelling effects of nuclear power plant cooling towers, control strategies in solar energy systems, and image reconstruction through laser holography.

The Department is well equipped and its faculty active in research ranging from astrophysics to solar energy to the physiological effects of ultrasound. Faculty members are readily available to students, and offer their majors the rare opportunity to work as undergraduates with professional physicists on problems of current interest.

OTHER ACADEMIC PROGRAMS

In addition to the regular departmental programs and majors there are other academic programs which have been structured along cross-departmental and cross-disciplinary lines.

AMERICAN STUDIES

The American Studies Program has developed a tradition of committed and spirited student majors who undertake to acquire an interdisciplinary knowledge of American experience. Specific courses in literature, history, political science, religion, philosophy, sociology and art lead to intensive junior and senior seminars, and finally to the writing of a senior thesis. The major has proven itself appropriate for a wide variety of academic or professional careers.

ARCHITECTURE AND URBAN STUDIES

As many as four Middlebury students a year may take advantage of a two-term program of urban planning, introductory structures, architectural design and architectural planning at the Institute for Architecture and Urban Studies in New York City.

CLASSICAL STUDIES

The Classical Studies Program cultivates historical perspective, theoretical rigor, literary sensitivity, and linguistic expertise. Students are intimately acquainted, through the cultivation of these capacities, with the fundamental and enduring works which have informed the culture of the West. The interdisciplinary nature of the program is reflected by a teaching staff which includes faculty in the departments of Classics, Philosophy, Political Science, English, American Literature, Religion, and Art. *(See page 119.)*

EAST ASIAN STUDIES

The term "East Asia" refers to China, Japan and Korea, and this interdisciplinary program's intellectual integrity stems from the fact that all parts of the region have been formed, to one degree or another, under the powerful stimulus of high Chinese culture. The course of study required by this program is grounded in at least three years of Chinese or Japanese language studies and includes courses to be taken in several different departments, exploring connections among the art and literature, history, intellectual heritage, social organization and cultural values of East Asian peoples. *(See page 122.)*

ENGINEERING

Middlebury offers special patterns of courses for those intending to enter an engineering discipline. Arrangements with Columbia University, Rochester, Georgia Institute of Technology, and Rensselaer Polytechnic Institute provide five-year plans leading to both the Middlebury A.B. and the engineering degree. It also is possible for students on their own initiative to develop similar programs with other accredited engineering schools, subject to the approval of the Preprofessional Committee and the Middlebury faculty.

ENVIRONMENTAL STUDIES

Environmental Studies is an interdisciplinary major with emphasis in one of the sciences, economics, or geography. The program is well suited for students with interests in terrestrial or marine ecology, oceanography, earth science, environmental engineering, physiography, pollution control, wildlife management, urban planning, human ecology, or environmental economics. Middlebury's locale affords an opportunity for field work in these areas and each student's program is designed specifically to take full advantage of it. *(See page 131.)*

NORTHERN STUDIES

This highly successful interdisciplinary field study and research program combining biology, geology, and geography, is a joint venture of Middlebury and the Center for Northern Studies in Wolcott, Vermont. Because the climate and biota at the Center are essentially sub-Arctic, students in the semester-in-residence there gain direct field experience, living and conducting research in a truly northern environment. *(See page 152.)*

PREMEDICAL, PREDENTAL, PREVETERINARY PROGRAMS

Faculty members on the Preprofessional Committee offer special guidance to students pursuing such programs. Middlebury's combination of strong science programs within a liberal arts context is well suited to the increasing emphasis placed on the physician-patient relationship in health care today. Efforts are made to arrange internships to provide early exposure to the profession. Interviews and a careful review of qualifications are used to assist the student in preparing his/her applications, and a committee dossier on each candidate is prepared and submitted to the professional schools at the time of application. The preprofessional student must maintain a strong academic record to be a realistic candidate. Exceptionally able students may choose a combined professional school plan which allows them to leave Middlebury at the end of their junior year to begin professional studies. The Middlebury A.B. is awarded when these students successfully complete their first year at the professional school.

TEACHER EDUCATION

Middlebury does not have a major in Teacher Education. Students participating in this program major in one of the regular departments or programs. Academic course credit is offered, however, for various aspects of the program including practice teaching which is usually carried out in one of the neighboring school districts. Teachers who complete the Teacher Education Program can be fully certified by Middlebury for teaching in most of the states in the United States. *(See page 182.)*

INITIATIVE, INDEPENDENCE AND THE CURRICULUM IN LIBERAL ARTS

The curricular programs set forth above are benchmarks for a liberal education. As departmental majors or special programs, they constitute fruitful and tested ways of developing in an orderly fashion important skills and insights. At each point and level in the total curricular picture at Middlebury, there is a recognized way for the student with initiative, special talent and a demonstrated ability for independent work to reconstruct the pattern of studies. The following paragraphs give a brief description of these independent study options in order of increasing scope and complexity:

FOUNDATIONS COURSES AND CONCENTRATIONS

The Middlebury College curriculum is designed to assure that each student's education includes a certain breadth of knowledge. In consultation with an academic adviser, each student plans his or her curriculum so as to provide an introduction to a broad spectrum of ideas.

The College offers a series of foundations courses in the major departmental and program areas of the curriculum. Foundations courses are designed to offer introductions to major historical traditions, great ideas, and great works. They will provide the foundations for further learning in the area of the course or in allied areas, and they will be designed to aid students in their choice of a major. Each student takes three of these specially designed one-term courses in three different divisions by the end of the sophomore year.

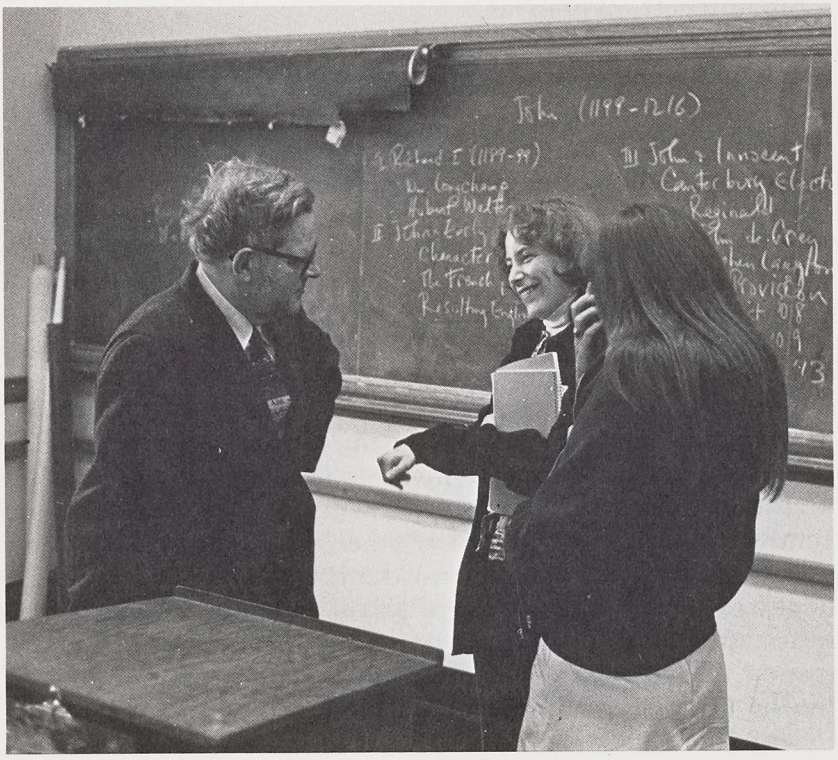
In planning his or her curriculum each student elects a concentration, in addition to the major. A concentration consists of four or more courses, unified by a general principle. The concentration may be departmental, or governed by an interdisciplinary theme. It involves work outside the major and substantially different from the major. Normally the concentration will be in a division other than that of the major, and it includes courses beyond the introductory level. While departments and divisions regularly specify concentration patterns, students may also seek approval for an original concentration. The student's concentration is submitted for approval by the Curriculum Committee before the end of the sophomore year.

INDEPENDENCE AND COURSE STRUCTURE

Students with strong records and particular interest may apply to their departments to substitute an independent project (numbered '500' in the course sequence) for a regular course. Such projects usually culminate in an extensive research paper, a major production, performance or portfolio of poems, paintings or prints.

INDEPENDENCE AND THE DEPARTMENTAL MAJOR

Most departmental majors have great inner flexibility. There are some highly structured majors in which the nature of the discipline prescribes a necessary sequence of course work. On the other hand, great variety is possible in pan-disciplinary majors like Religion. Joint majors and double majors are not difficult to structure and have been increasingly elected in recent years. All departmental majors—even the most structured—encourage if they do not insist on independent work in the field during senior year. However, the ways of knowing are not confined to any college's current departmental structures and so Middlebury has a program of Independent Scholars for



students whose talents and interests clearly require independent major programs.

The College recognizes that a few outstanding students with clearly defined educational goals find that they cannot fulfill them within the framework of normal requirements, and the Independent Scholar program is designed to meet their needs. Independent Scholars plan their programs with the assistance of their faculty advisers, under the general oversight of the Independent Scholar Committee. Such programs may be broadly transdepartmental or may involve intensive study and advanced research within a single department. Normal restrictions as to numbers of departmental courses, number of courses necessary for a degree and so forth, are waived with the understanding that the student will fashion a program with appropriate focus, and that work which is accomplished outside the normal curricular structure will be equivalent in level of achievement to that required in the normal A.B. program. An Independent Scholar's studies may include multiple credit independent projects, reduced course loads, off-campus work, accelerated progress toward the degree, non-departmental programs, and interdepartmental majors as well as more intensive departmental majors.

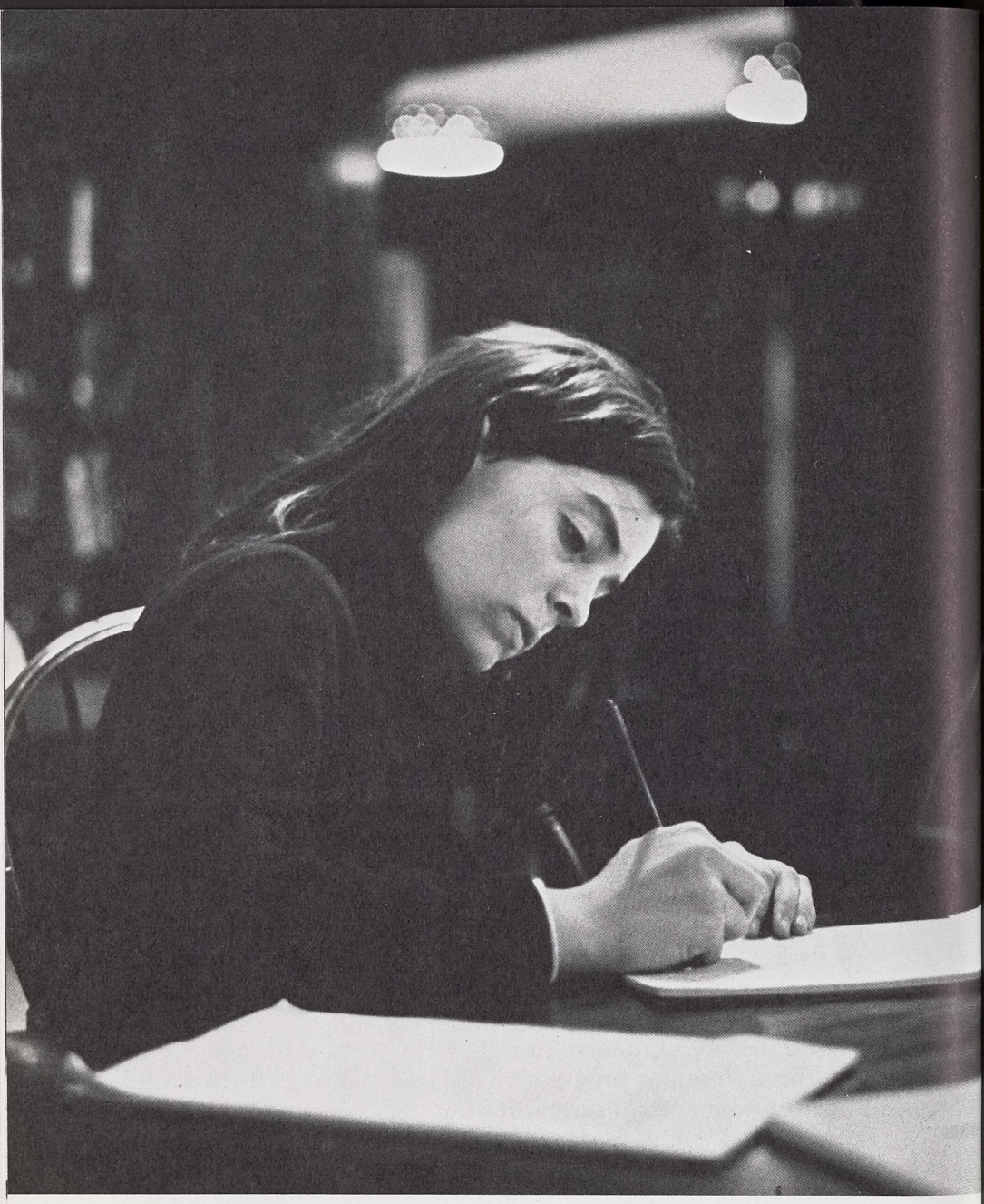
INDEPENDENCE AND GRADUATION REQUIREMENTS

The normal graduation requirement for Middlebury is four years in residence, election of three foundation courses, a concentration and the completion of a departmental major. Students may restructure the major requirement under the Independent Scholar option or they may under certain conditions qualify for a Middlebury degree while pursuing graduate or professional studies. Students with excellent records may elect a three year pre-professional program pointing toward medicine, dentistry, law, engineering, or business. Students who qualify for admission to any of the appropriate professional schools at the end of their junior year at Middlebury may be permitted to move directly into professional studies and qualify for the Middlebury degree at the end of their first year at the professional school or when the terminal degree is completed. Students interested in the three year plan should contact Dean Walter Moyer in the Placement Office.

A Sense of Life: Patterns in Time

Four Years: Most students take four full years to complete their A.B. degree. Because of its successful graduate summer program, Middlebury is not under financial pressure to direct students toward summer sessions at the College. While there is nothing sacred about the traditional four college years interspersed with summer breaks, the logistical problems faced by students when summer attendance is urged or required can be considerable. If students are in attendance in different term patterns throughout a four year academic career, it is necessary to adjust for disruption in roommate patterns, variable availability of faculty, and uncertainties about which students will be available to staff the student activities or the athletic teams. While these problems can probably be dealt with in a large institution, in a small college like Middlebury they would be very difficult to manage. Not only do students come to a small college with the hope that they will be able to form reasonably stable friendship groups, but all the college activities from academic seminars to football run on a full participation principle as a necessary principle of success. Large universities may have reservoirs of athletes, student editors or advanced literature majors to fill in while someone else is off in a fall or spring term, but at Middlebury most activities need every available body. As the athletic coaches testify, running with a thin crew has its anxieties but it is also a source of a special esprit and allows everybody to get into the act. When you need everybody, no one gets lost.

Middlebury students, then, follow the traditional freshman through senior progression. (Variations at both ends and in the middle are considerable, but the variations are variations around the core structure. Some freshmen do begin in Spring Term, some have students accelerate in the middle years or study on an overseas program which breaks the normal term progression. Some students leave after three years to attend professional school and receive their A.B. from Middlebury on the so-called 3-2 program.) As freshmen, students must complete the freshman writing requirement. Most students experiment with tentative major possibilities. By the sophomore year a preliminary choice of major has been made. This allows students to make a serious test of their prospective interest while there is still time to consider other options if their



first choice proves inappropriate. By having a departmental identification, it is also possible to have a functioning advising system for sophomores. By junior year a student will have firmly decided on a major and probably half of his or her course work will be in that area. In senior year, all departments offer some special senior work: seminars, thesis, or general examination as an integrating study or special research.

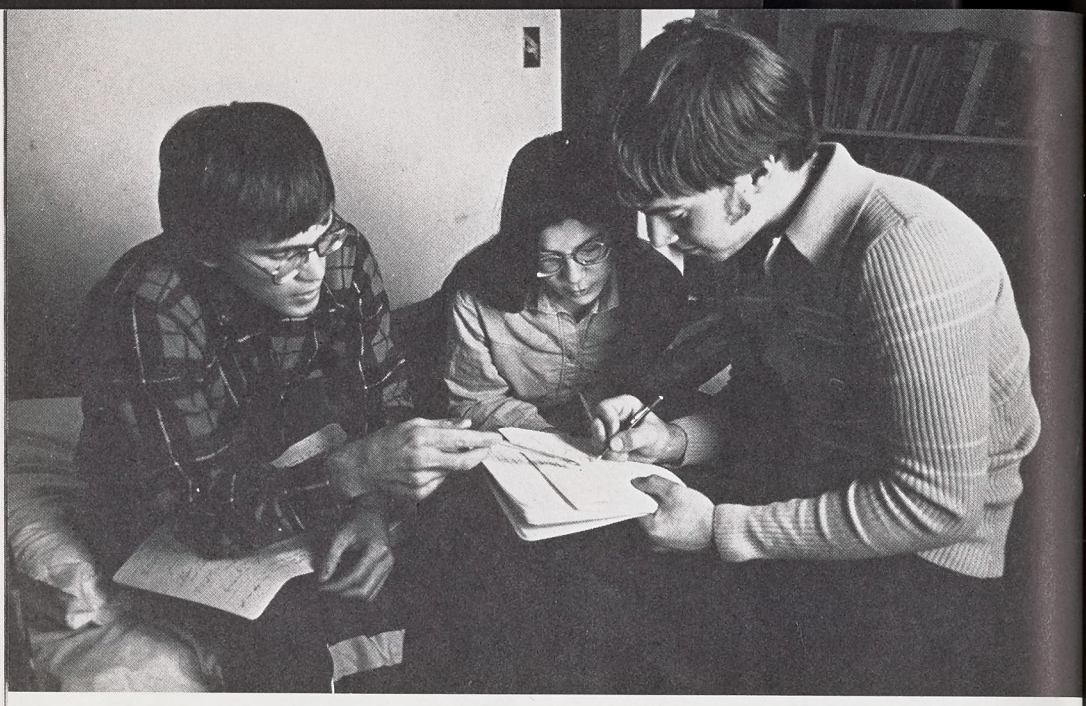
A single year: 4-1-4 Curriculum

The time pattern in a single year at Middlebury consists of a Fall Term of 12 weeks ending at Christmas vacation, a Winter Term of 4½ weeks in January and early February and a Spring Term of 12 weeks ending about the last week of May. In the Fall and Spring Terms, the normal course load is 4 courses, but students may with permission take 3 or 5 in a term. This allows students to vary their academic load in a single term in light of the overall pattern of their educational program. In the Winter Term, students take one intensive course.

The 4-1-4 pattern has several advantages. It allows the college year to follow the rhythm of the calendar year so that Fall Term is completed before the Christmas vacation. Rather than let the January period lie fallow either through an extended vacation or a "reading period," the faculty has chosen to use that time for curricular innovation. The Winter Term opens up teaching possibilities at the College that are simply impossible in any conventional term. The clearest example of a unique possibility that can be realized in Winter Term is the extended field investigation. When students are involved in four courses simultaneously, they cannot take off for three weeks to study marine, freshwater and terrestrial organisms in Guatemala, see first-hand the relationship of modern Peruvians to their past or take part in the College's internship program by working in the emergency room in a large metropolitan hospital — all projects from recent Winter Terms.

In the Winter curriculum, faculty are able to try new ventures not easily structured in a Fall or Spring Term. Exotic areas of a discipline, special interests, or unusual methodologies may be the focus of an experimental course. Some recent entries: Town Meeting on Trial, A Conflict Seminar; The Pacific War, 1937-45; Whodunit, The History and Theory of Detective Fiction; Here Comes the Sun, A Study of the Sun's Influence on Mankind; Women and Madness, An Introduction to Psychocriticism.

In certain disciplines great efficiencies in learning can be accomplished by an intensely concentrated period of study on a single technique, problem or body of material. Several language departments, for instance, have been experimenting with intensive introductions to language in the Winter Term.



Independent Study in Winter Term: in addition to the curricular offerings by the faculty, extensive possibilities exist for qualified students to pursue independent projects during the Winter Term. In addition to the normal independent research project akin to the "500" courses in the regular terms two unique possibilities in Winter Term are:

Internships: students are permitted to take ungraded internships in various professional areas: law, medicine, architecture, communications, teaching and so on. The internship may be off-campus — some have been as far away as the mayor's office in Bremen or a clinic for autistic children in London — or it may be working in the office of a local attorney or at the University of Vermont Medical School. In all cases, internships involve significant exposure to the essential work of a profession. Mere bystanding or routine clerical work is not sufficient to qualify a position for an internship.

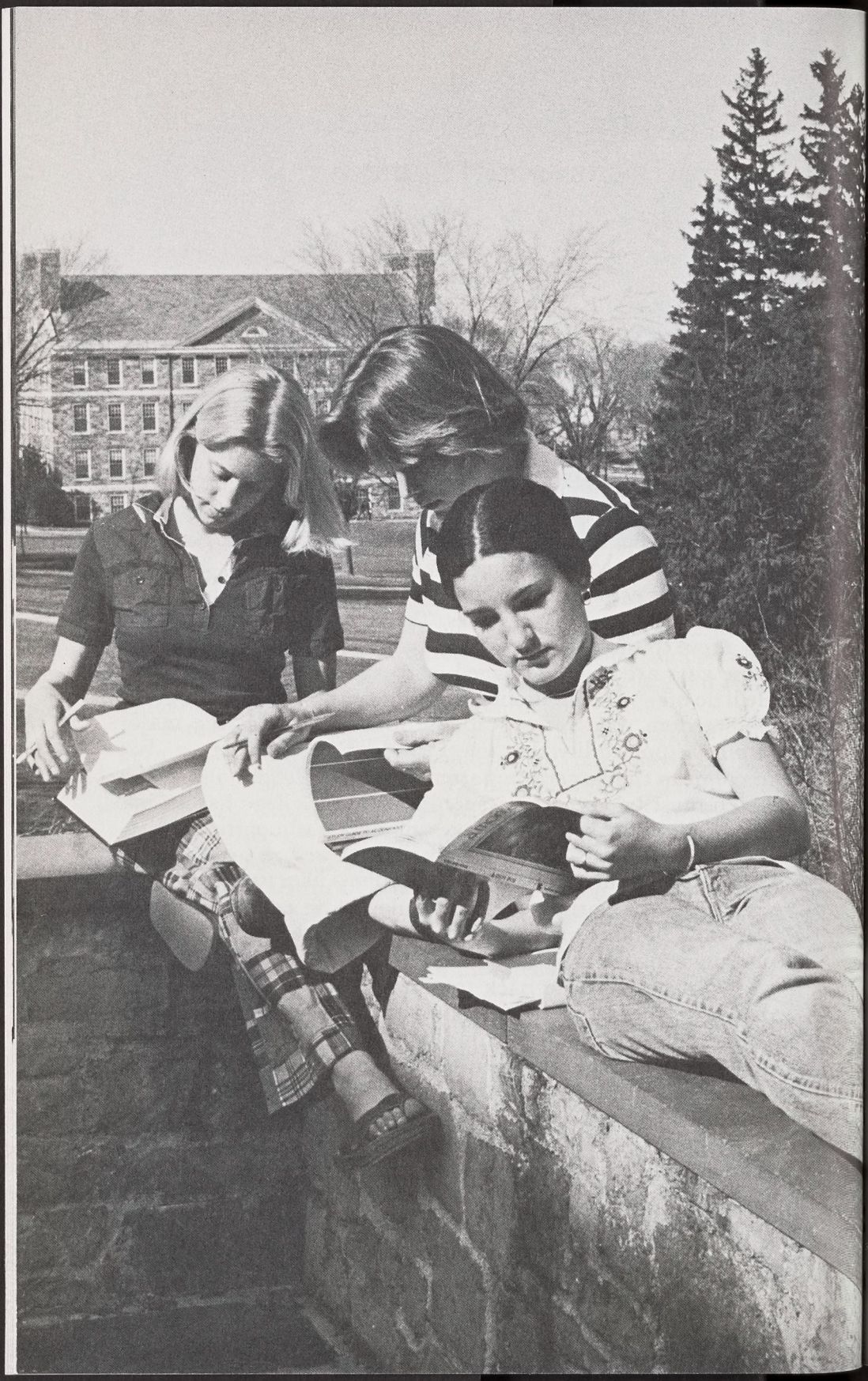
Student-Led Courses: these permit small groups of students to study under the guidance of one of their peers who has exhibited expertise in an area not included in regular semester programs.

A Sense of Life: Improvisation and Theme

FREEDOM

The most immediate obvious fact of life at most colleges is freedom. Freedom is everywhere in contrast to high school. No proctors record a missed class, no study halls are required, assignments become more major and there are long periods when no one is marking and admonishing as students prepare the materials on which they will be evaluated. In short, the responsibility is on the individual student in this freedom from structure to take on the task of his or her education. To the extent that this can be done, Middlebury looks for the student who knows how to superintend freedom. A student with an abundance of natural talent may score well on an aptitude test but be a very poor student because this intelligence is given exercise only in occasional bursts as the mood moves. The Admissions Director was asked one day about a student with lower than average SAT scores. "Well," he said, "That fellow is a cross country runner and it has been my experience that those guys are awfully dogged when they set out on any task. He'll do o.k." The prediction proved true.

Freedom relative to academic performance is the major public responsibility that every student has to take on, but freedom in the larger life pattern of the College is also a fact which must be accepted responsibly. The College has an immense Handbook full of pages of data, admonitions, procedures, standards and what not, but there are precious few College social rules. The Dean of Students likes to sum it up by saying that the primary college rule is "Be considerate." In general, students manage their own social life. The current nostalgia for the decade of the 50's (or the 20's) has not yet turned anyone's taste back toward the carefully chaperoned dances, or the rule which forbade men to be on the women's side of the campus after 10:00 p.m. Most of the college dormitories are co-educational in some fashion or other: by wing, by floor section or corridor. The effect of co-educational dormitories on the whole has been salutary. Insofar as living arrangements are a sign of respect for the maturity of the young people who come to the College, they become an instrument in sustaining that maturity. In terms of the Dean's rule of "considerateness," coeducation in general and the current College residential policies appear to be positive factors in encouraging that virtue.

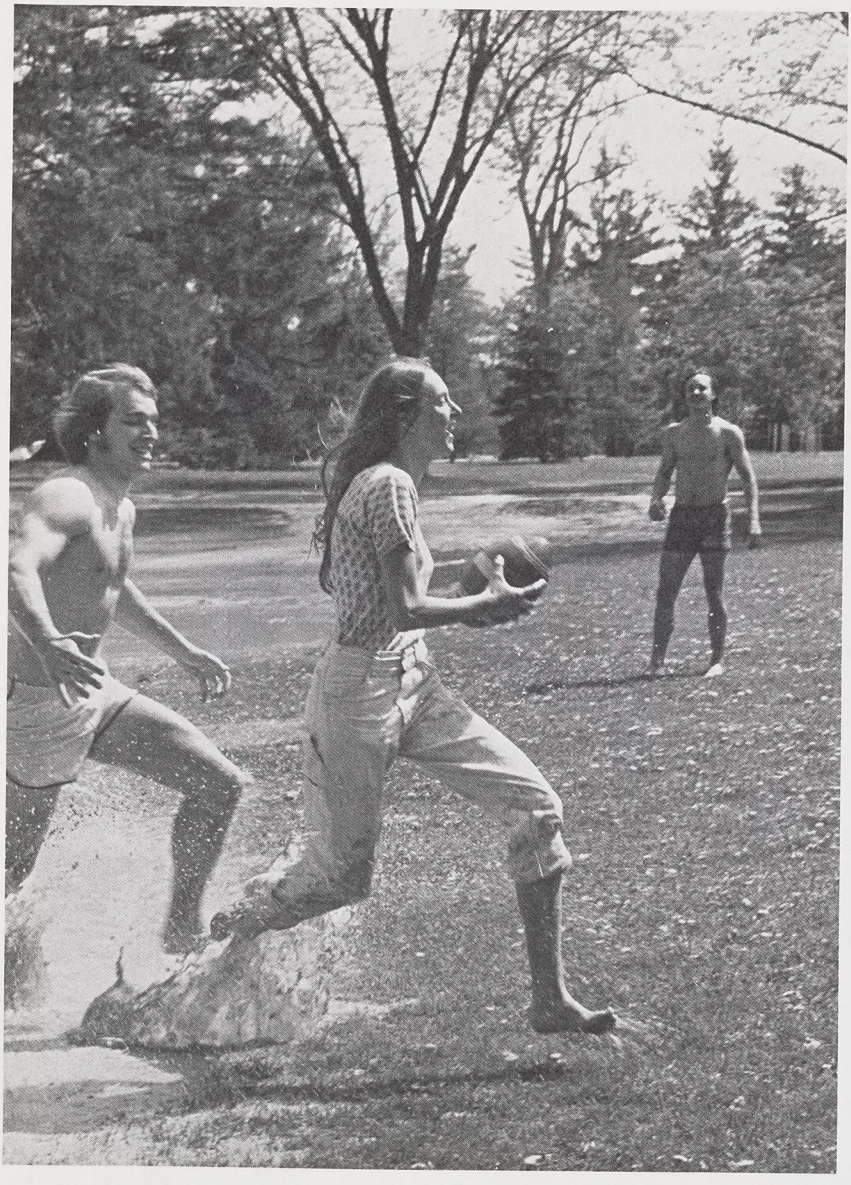


COMMUNITY

If cross country racing presents a figure for the diligence which makes talent productive, there is also the "loneliness of the long distance runner" to be reckoned with. Any Dean of Students or counselor will recount that "loneliness" is a primary worry of college students. One suspects that the better the college, the more often the complaint is heard. This is not surprising. Young people who show the kind of intellectual achievement it takes to be admitted to a very selective college have necessarily spent a lot of time wrapped up in books, writing poems, laboring over lab reports and the like. A lot of life's satisfactions have been in the world of ideas and imagination and some of this may exact a toll on the easy flow of social life. Middlebury does have its share of loneliness—finally no one but the individual student can master the academic tasks—but there are many factors at the College which run counter to isolation and create community. A few are worth special mention.

One of the delights of the large university is the size and variety of the curricular menu—a myriad of courses in endless departments served up by armies of faculty. Contrary to some propaganda, excellent teaching by top faculty does go on in individual classes. What is much harder to obtain in the large institution is a sense of on-going community between students and faculty. The individual classroom teacher may be as warm and open and generous with his time as can be, but the statistical law of the land is that a student will very seldom have the same faculty member twice in an entire academic career. One of the advantages of smallness is continued exposure over time to a comprehendible number of faculty. The student has an opportunity to see a faculty member in various ranges of expertise and working at different levels of a subject. Faculty student relations are not characterized merely by information flow for a term, but, because they can continue over four years of a student's career, the faculty member can become a living example of the value of the discipline he or she knows and professes.

Being in Middlebury, Vermont, is a definite aspect of community formation. Social life cannot be channeled around existing commercial delights as in the city so there is a necessary, pleasant improvisational quality to socializing at Middlebury. Established social groups, fraternities, and student activities exist and are open to virtually any student at any time. Many of the Middlebury fraternities admit women and there is an



easy passage back and forth between fraternity members and the students "on the hill." The fraternities run an "open rush" which is virtually a self-selection system of affiliation. The fraternity example of openness is matched in all organizations. Anyone who shows even a suggestion of interest in joining up at anything from KDR to a weekend birthday party for the girl down the hall is likely to be swept in and told to provide the potato chips.

Social activity is primarily free floating and small scale. It ranges from intellectual groups to folkdancing, from the serious and sedate, to the noisy and boisterous. The Winter Carnival Ball always attracts a crowd. Big events may be the appearance of Oscar Peterson or a student production of *Company*. Movies are constant fare in Dana auditorium with two or three showings a night from the Cinema Club, the American Movie Club or the Student Activities Board's horror film festivals which are shown as "tension breakers" during exam time. Middlebury is an outdoors campus and much of the out of classroom life takes place on the Long Trail, on the ski slopes or in white water sport.

Whether students who choose Middlebury are already open and democratic in their tendencies or whether the College produces and supports that style, the end result is a college student community with very little stratification. There are many roads to admiration on campus and no group tops the prestige list or is the *in*-group. It may be a happy accident that the entire student body relocates from dormitory to dormitory almost every year. This has prevented the kind of territorial imperative that allows the special elect to dominate certain favored geography. Because living arrangements change every year, students would be forced if they were not already so inclined, to develop sociable habits toward a very wide proportion of the student body.

Extracurricular Activities and Student Government

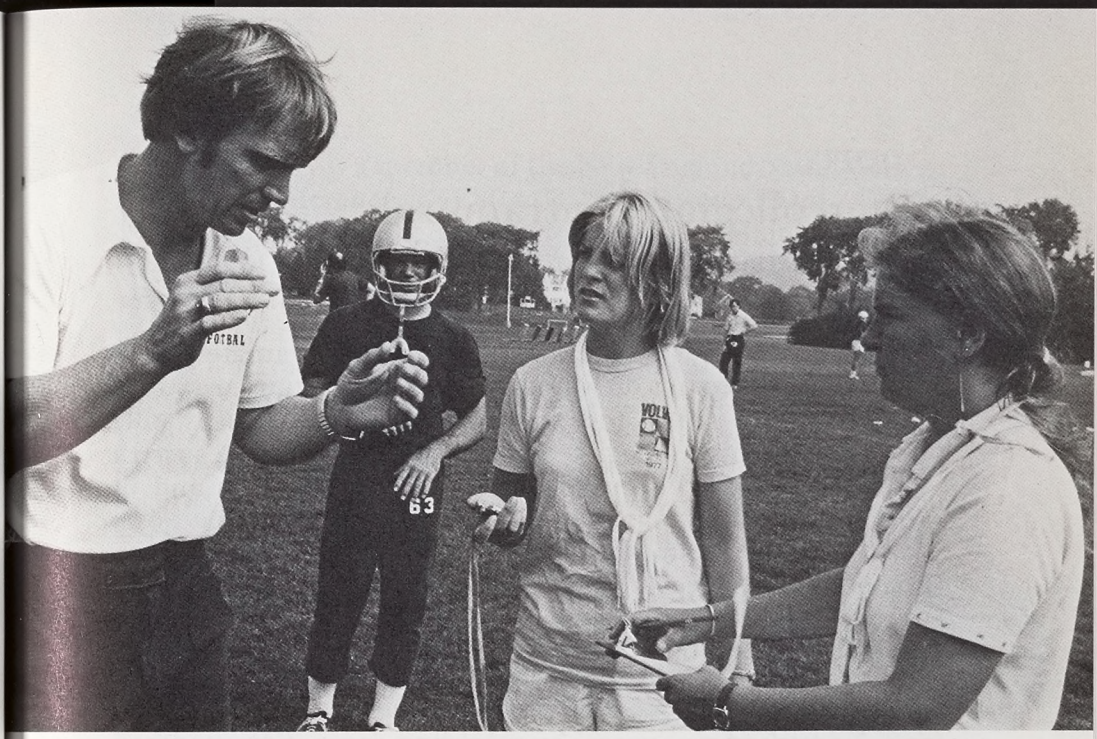
At last count there were somewhere in the vicinity of 60 student organizations which had formal constitutions approved by student government. These run all the way from special interest groups like the photo club, through the religious groups to the large and traditional college organizations: the newspaper, the year book, the literary magazine and the radio station.

Of the student activities the newspaper, *The Campus,* probably has the most notoriety since its pungent opinions are often hotly disputed by administrators, faculty and students. The radio station, WRMC, is a ten watt FM stereo educational station, and an application is pending for increase to one hundred watts. The station is probably the activity with the most loyal staff. There is something, evidently, about dominating the air waves for an hour which brings students to work on a 24 hour shift. The literary magazine, *Frontiers,* has recently branched into photography and graphic arts presentation and continues with the publication of poetry and prose from students and faculty. The yearbook, *Kaleidoscope,* is well named since it never seems to appear in the same format twice.

The Middlebury College Activities Board has the responsibility for initiating, planning and presenting major programs of interest. Visiting lecturers, big-name popular concert groups, folk singers and a host of other social activities are produced and financed by MCAB.

The big social event of the year is, of course, the Middlebury Winter Carnival which features not only outstanding ski events but a round of mid-winter parties, a Carnival Ball, an ice show and nationally known entertainers. The four day Carnival is believed to be the only remaining student-organized, student-financed Carnival in the East. Homecoming in the fall and Spring Weekend are more subdued versions of carnival social activities.

As was mentioned in passing above, student government arrangements at Middlebury are evidently unique. The main body of student government is called the Student Forum. This body is composed of representatives of the advisory councils of the several academic departments. Each academic department has an advisory council of students to assist in curricular planning, make recommendations on appointment and reappointment of faculty and, in general, to serve as a general instru-



ment of communication between departmental faculty and the students. The student chairmen of these advisory councils serve *ex officio* on the Student Forum. The advantages of this system are considerable. The student government reflects a broad spectrum of the intellectual interests of the College and, by relating the student government to the College's departmental structure, it has been possible to give the student government some of the stability which it previously lacked. In addition to departmental representatives about one-third of the Forum is elected at-large. Special elections are held for freshman representatives.

The Student Forum has direct responsibility in the expenditure of the student activities fee which amounts to some $72,000 in aggregate in any year. More importantly, the Forum appoints all the students who serve as voting members on the various faculty and administrative councils of the College. There are 2 students, 2 faculty and one administrator on the Curriculum Committee and 4 students, 6 faculty and two administrators on the Educational Council, to mention only two important councils.

The major all-college council for student life is the Community Council which is co-chaired by the Vice President of the Student Forum and the Dean of the College. All students who serve on faculty councils attend faculty meetings with the right to speak on issues relating to their committees.

Sports: Intercollegiate, Intramural and Individual

When football was only a pleasant if grueling amateur sport enjoyed by collegians on warm fall days Middlebury teams tied Harvard, beat Army and made headlines. Football is still a hard fought intercollegiate sport at Middlebury — just the headlines have been given over to the professionals and the "major football powers." A crisp Vermont afternoon at Porter Field with the mountains blue in the background beyond the line of autumn trees is a perfect setting for spectators and participants to keep alive the traditional spirit of collegiate athletics. Middlebury has no athletic scholarships. It doesn't plan to balance its intramural budget with massive gate receipts; it is beyond the scope of public relations sports and the instant replay. The College's intercollegiate athletic program is based on the principle that people play for the love of the game and the zest of competition. It searches out excellence in prospective student athletes and expects them to give of their talents, but it continually stresses that this is *collegiate* athletics, sports within the context of a total education.

Middlebury is a member of the New England Small College Athletic Conference (NESCAC): Wesleyan, Bates, Colby, Tufts, Williams, Amherst, Bowdoin, Trinity, Hamilton. Since in many of the sports, competition between all the member schools would be impossible because of the size of the conference, there are no conference champions nor was that the aim of the conference. Its primary purpose is to make sure that collegiate sports remain within the context of the educational philosophies for which these colleges are noted. Middlebury fans have been very pleased in recent years with the excellent records of many of their teams. Football, soccer, hockey, field hockey, lacrosse, and men's and women's skiing have been especially successful— women's skiing having just won the AIAW National Championship. *(See page 194.)*

INTERCOLLEGIATE

The intercollegiate sports program covers the following: football, soccer, cross-country, basketball, hockey, skiing, tennis, baseball, golf, track and lacrosse (for men); basketball, field hockey, swimming, cross-country, skiing, lacrosse, squash and tennis (for women). There is also a healthy club sports program that includes rugby, squash, swimming and volleyball for men and ice hockey, volleyball and synchronized swimming for women.

The College, located on the western edge of the Green Mountains, provides its students with their own ski area — The Middlebury College Snow Bowl. With an unusual variety of groomed slopes and trails, the Snow Bowl is ideal for novice and expert alike. Four lifts, a double chairlift and three Pomalifts serve thirteen trails and slopes, a total of twenty miles of skiing, dropping 1,200 vertical feet. On the Middlebury campus, fifteen miles away, the Snow Bowl operates a 3.5 kilometer cross-country trail, the longest lighted course in the country. The College, its racers, and its alumni are prominent in the ski world. Both men's and women's teams were winners of recent regional and national ski championships.

PHYSICAL EDUCATION

Middlebury has a physical education program geared to lifetime sports. Students are expected to pass a swimming test and to qualify in five seasons of lifetime sport. Qualification can be either by a test of current achievement or by a program of instruction. Among the lifetime sports offered are: bowling, dance, golf, karate, riding, swimming, tennis, badminton,

figure skating, ice skating, skiing, squash, touring, scuba diving, cross-country skiing, archery, conditioning, cycling and platform tennis.

INTRAMURAL

Intramural sports play a large role in campus recreation with a varied program of activities to meet the competitive and recreational needs of all students. Competiton in the Intramural Sports Program is organized in the form of leagues, tournaments and special meets or events with the participation of both men and women.

INDIVIDUAL

Individual sports and recreation may range from a swim in the indoor pool to a skating date on the artificial ice rink, skiing the new lighted cross-country trail on the main campus, a bicycle ride in the country or an overnight hike on the Long Trail. Middlebury's rural setting offers unlimited opportunities in mountaineering, hiking and canoeing — all promoted with enthusiasm by the Mountain Club which provides training and equipment to the adventurous.

Students in Service to the Community

Students who come to Middlebury from suburbs or large cities will find the service opportunities in the community unlike what they may have previously known. Vermont is a rural state with a low population density and the problems of and possibilities for social service reflect that fact. One of the long term programs in which students have been involved is a "Big Brother/Big Sister" program in connection with the Addison County Counseling Service. Some of the difficulties which local children experience stem from the physical isolation of rural farms. Rather than problems of population density which mark so-called urban ghettos, many families in Vermont can virtually drop out of contact with a larger society. This is especially true in rural poverty and a succession of Middlebury students working through the local social service agency have served as out-reach workers for low-income groups in the county.

One of the satisfactions of service work in the Middlebury area is direct contact with a problem. There are no elaborate bureaucracies or overlapping interest groups to be dealt with. This is true of the political life of the town. An undergraduate ran for political office on a base of considerable service activity in the township. A recent graduate was the Addison County VISTA volunteer responsible for coordinating programs and services for the poor and now serves the area as Chittenden County developer in the Champlain Valley Office of Economic Opportunity. Another recent graduate was elected to the Vermont House immediately following graduation.

A steady supply of Middlebury students have volunteered their services to the Brandon Training School and the Shannon Street School for tutoring mentally retarded youngsters. Students have traditionally offered their services in art, crafts, drama, dance and music in the one-room schoolhouses in the rural towns and villages surrounding Middlebury. Other local organizations offer opportunities for volunteer work in social agencies, political campaigns, environmental programs, the arts, government and other activities which often complement students' academic and career interests. A Middlebury College Coordination Center was organized to coordinate the numerous and varied volunteer services of the College.

Requirements, Facts and Facilities

GRADUATION REQUIREMENTS

1. A student must successfully complete 32 regular fall or spring term courses and four winter programs to graduate. Only six courses with D grades may count toward graduation.
2. Students may not elect more than 16 fall or spring term or more than two winter term courses in the same department.
3. All students must take in the freshman year one of the courses in the writing program.
4. Students must elect one foundations course in three different Divisions of the College: Humanities, Natural Science, Social Science, or Foreign Languages.
5. In addition to a departmental major (or its equivalent) students must elect a concentration in their upperclass years. A concentration is a structured program of 4 or more courses.
6. A Physical Education Program based on the options and opportunities indicated in the departmental section of this catalogue is required.

MOTOR VEHICLES

Qualified students are permitted to have or operate a motor vehicle.

RESIDENCE

Middlebury is a residential college and students are expected to live in College residence halls or fraternities.

MEDICAL FACILITIES

The College has a well equipped Infirmary with a twenty bed inpatient facility. The Town of Middlebury has a hospital for more serious cases and the Medical Center Hospital of Vermont in Burlington has extensive medical facilities for all illnesses. A full-time resident physician acts as Medical Director of the College. He is assisted by two full-time registered nurses, two psychological counselors, one full-time and one part-time, and a part-time psychiatric consultant.

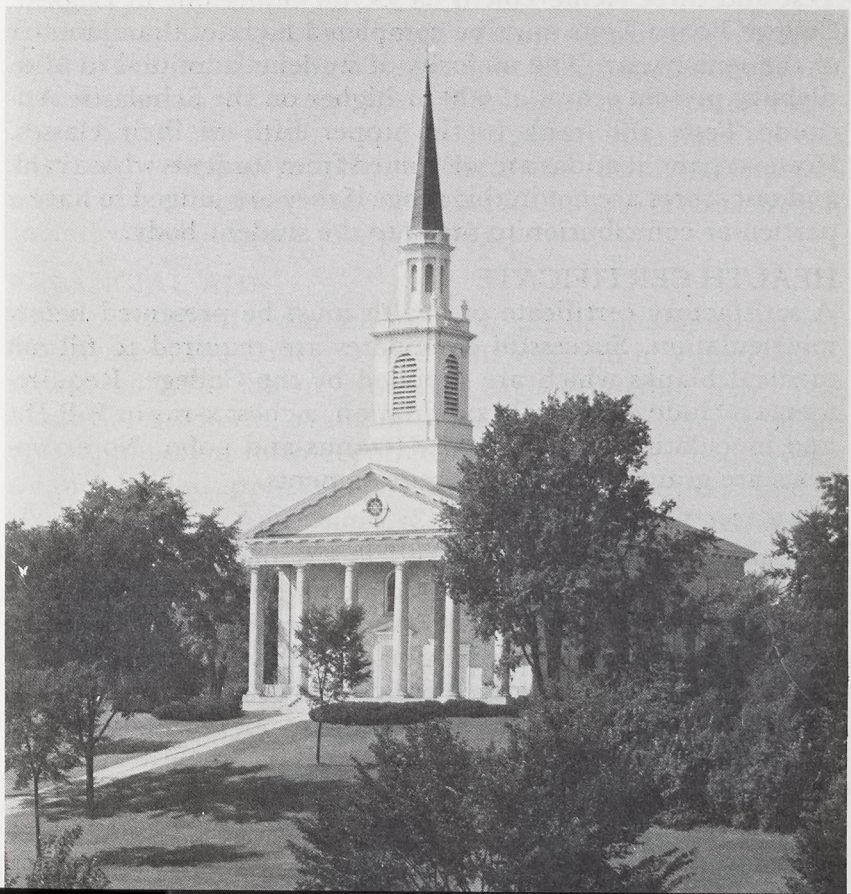
ADVISING

Every freshman is assigned to a member of the faculty who acts as his or her particular adviser throughout the year. Generally, an advisor has between 6 and 8 students for whom he or she is responsible. Junior Counselors, students living in the freshman dormitories, are particularly chosen to assist the freshmen during their first year.

After freshman year, advising is a function of the individual departments.

RELIGIOUS SERVICES

The Mead Memorial Chapel is the focus of College religious services. The program is Christian in emphasis and ecumenical in breadth. The Roman Catholic Church is immediately adjacent to the campus. Various Protestant denominations are represented in the town of Middlebury. The Hillel Foundation has maintained an active program for Jewish students. As a major campus student organization, Hillel focuses on religious, cultural, political, and ethnic oriented activities. Quaker and Christian Scientist groups are also active on the campus.



Admissions Data

ADMISSIONS REQUIREMENTS

Middlebury receives many more applications from qualified students than can be accepted. Thus, admission to Middlebury must be selective and is based upon academic ability and achievement, community citizenship and leadership, character, and personality.

The program and record of each applicant will be assessed individually. A recommended secondary school program would include four years of English; four years of one foreign language (in preference to two years each of two languages); three or four years of mathematics; two or more laboratory sciences; two or more years of history; and some study of music, art, or drama. However, many candidates whose programs of study differ from that outlined above are admitted each year: the quality of an applicant's secondary school achievement, especially in the two final years, is the factor of primary importance.

All applicants are required to take the Scholastic Aptitude Test and three Achievement Tests, including one in English. College Board Tests must be completed no later than January of the senior year. The majority of students admitted to Middlebury present scores of 600 or higher on the Scholastic Aptitude Tests and rank in the upper fifth of their classes. However, applications are welcomed from students whose rank and test scores are not in this range if they are judged to have a particular contribution to make to the student body.

HEALTH CERTIFICATE

A satisfactory certificate of health must be presented before matriculation. Successful candidates are required to fill out medical blanks which are supplied by the College. Requirements include a physical examination, a chest x-ray or P.P.D., and inoculations for smallpox, tetanus and polio. No exceptions are granted from these requirements.

ADVANCED PLACEMENT

The normal procedure for a student wishing to receive college credit for work done while in secondary school is through the Advanced Placement Program sponsored by the College Entrance Examination Board. Advanced Placement scores of 4 or 5 will usually be awarded credit. College level courses taken as part of a secondary school program are not normally accept-

able for transfer. However, a student taking college level courses that are not connected to the secondary school program may apply for transfer credit.

EARLY DECISION PLAN

Candidates who have Middlebury as their first choice of college may ask for an Early Decision on their applications. Early Decision Applications must reach Middlebury by November 15. All other forms and credentials (i.e. transcripts, school reports, and recommendations) must be received, and interviews must be completed by the November 15 application deadline. Results of the November College Board tests will be acceptable for Early Decision candidates. Further information may be obtained from the Director of Admissions.

TRANSFER STUDENTS

A limited number of students can be accepted into the sophomore and junior classes. Students wishing to transfer to Middlebury should write the Director of Admissions for detailed information and application forms. The College does not make financial aid available to transfer students.

ANNUAL EXPENSES FOR STUDENTS

Middlebury College has adopted a comprehensive fee of $6,900 which includes all charges, except the $38 student activity fee. In addition to the fixed expenses included in the comprehensive fee, students must, of course, be prepared to meet the cost of their books and supplies, clothing and incidental expenses which comes to an average of about $700. Travel costs are *not* included in this figure. *(See page 195.)*

FINANCIAL AID

To assist students who otherwise would be unable to attend Middlebury, the College awards financial aid in some combination of loan, job or grant for each academic year. The Financial Aid Form, available at most secondary schools, is the only application form required. Correspondence concerning financial aid to applicants for admission should be addressed to the Director of Admissions. Similar inquiries by upperclass students should be made at the Office of Financial Aid, where a more detailed information folder can also be obtained. *(See page 196.)*

GRANTS

Grants, awarded on the basis of a demonstrated need, are made from College funds or the Federal Basic or Supplemen-

tary Educational Opportunity Grants (BEOG or SEOG) programs. Students need not apply for specific College grants; the College will make this designation. In addition, the states of Connecticut, Massachusetts, New Jersey, Pennsylvania, Rhode Island and Vermont offer undergraduate grants or scholarships usable at Middlebury; *Middlebury requires students to apply for these state grants and will be glad to make the appropriate certifications.* Applications can usually be secured from secondary school guidance counselors or by contacting your State Higher Education Assistance Agency.

LOANS

Loans are available to students from the following sources: 1. The Federal National Direct Student Loan Program (NDSLP). 2. The various State Guaranteed Insured Loan Programs (GILP). 3. The privately sponsored United Student Aid Funds (USAF). 4. A limited amount of the College's own loan funds. The College will certify the necessary applications for these loans.

STUDENT EMPLOYMENT

As far as possible, financial aid to upperclassmen will include the offer of campus employment; jobs are not usually assigned to freshmen. Students can expect to be assigned jobs as waiters or waitresses, research or library assistants, clerk-typists, receptionists, student union desk clerks, etc. A few specially qualified students can find employment, off-campus, under the Federal College Work-Study Program which also assists in financing many of the student jobs listed above. Laundry, newspaper, magazine, food, etc. concessions are also student-operated. The better-paying campus jobs are incorporated into the Financial Aid Program, but there are a number of lower-paying jobs that an interested student can apply for on his own initiative.

It is assumed that all Financial Aid recipients will make a contribution from summer earnings towards their College budget. The *net* summer earnings expectancy for both men and women students is $700 for pre-freshman year and $800 for pre-upperclass years.

PROCEDURE FOR ADMISSIONS

Inquiries regarding admission should be addressed to the Director of Admissions, The Emma Willard House, Middlebury College, Middlebury, Vermont 05753.

VISITS TO MIDDLEBURY

A personal interview, a chance to meet members of the Middlebury staff and see the campus, is always desirable. Applicants are encouraged to visit for this purpose between June 1 and January 31 of their senior year in high school. An appointment with an admissions officer may be arranged by writing or telephoning the Admissions Office as early as possible in advance of the intended visit. During the months of February, March, April and May, the Admissions Staff is engaged in reviewing completed applications and time required for this process precludes the scheduling of personal interviews. However, guided tours of the campus may be arranged during this period.

ALUMNI ADMISSIONS PROGRAM

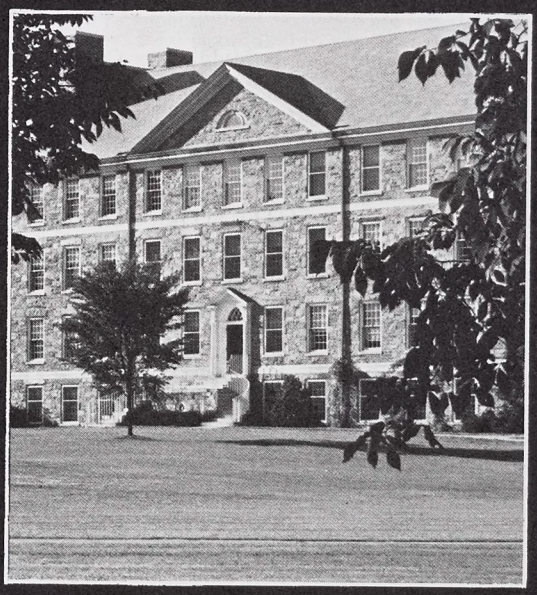
The College established the Alumni Admissions Program to coordinate the interest of alumni with the continuing efforts of the Admissions Office staff to attract outstanding students. Alumni admissions representatives are available throughout most of the United States to meet prospective candidates and to acquaint them with what the College offers. Some areas are served by active committees and others are served by independent alumni representatives. Students interested in Middlebury College may arrange to talk with alumni representatives by contacting the Admissions Office at Middlebury, Vermont 05753, or 802-388-4929.

National Chairman	Mrs. George E. Platt, '49 Pittsford, NY
National Vice Chairman	Peter Zecher, '55 Saddle River, NJ
Trustee	W. Kyle Prescott, '49 Montreal, Quebec

For an interview or additional information, write:

Director of Admissions,
The Emma Willard House,
Middlebury College
Middlebury, Vermont 05753
Telephone: (802) 388-4929

SECTION II



ACADEMIC PROGRAMS

CURRICULUM

Middlebury College confers one undergraduate degree, Bachelor of Arts. It also confers the graduate degrees, Master of Arts, Master of Letters, Master of Science, and Doctor of Modern Languages.

UNDERGRADUATE WORK

The purpose of the liberal arts curriculum is to give every student a detailed knowledge of the work covered in at least one subject, and to correlate it with a broad understanding of the liberal arts and the liberal sciences. To achieve the scholarship which this objective implies, students work intensively in one or more departments and complete requirements and electives in fields outside of their specialization.

The extent of a student's academic work at Middlebury College is reckoned in courses successfully completed.

The normal program of study is four courses in the Fall and Spring Term. In the Winter Term, students select one course for concentrated study. Physical Education is carried as an elective without credit as a course unit. The Physical Education Program may be completed without charge, although there are fees for certain optional courses (presently for lessons in Karate, scuba, riding, skiing, and cross-country skiing). Only students who have demonstrated superior ability in their academic work are permitted to take more than four courses in a term. Independent study in the Senior year may count for as many as three course units as the department determines. The course units may be distributed between Fall, Winter and Spring terms.

Entering Freshmen select their first term program in consultation with their adviser. Final registration for courses occurs after students have been able to attend briefing sessions on the various departmental offerings and to take appropriate placement tests. The CEEB Advanced Placement tests may qualify a student for either credit or for advanced standing in a course sequence or both. Determination of credit and/or standing is the prerogative of the academic department. In general, scores of 4 or 5 carry credit as well as standing. All students must register for the Freshman Writing Program regardless of prior work or Placement scores.

WINTER TERM

During the month of January, students elect a single intensive program of study. This program may involve independent projects outside the curriculum or a course organized by a member of the faculty.

In addition to the course offerings, properly qualified students may participate in Independent Study under the direction of a faculty member, in Internship programs involving significant exposure to the fundamental work of an established profession, or in Student-Led Groups, which permit qualified students to construct a seminar on a topic approved and supervised by a member of the faculty.

Each Fall the Curriculum Committee of the faculty publishes a Winter Term catalogue. A student may not take his freshman and sophomore courses within the same department. A department may not require more than two Winter courses as part of its major program. All Winter courses are graded on an Honors, Pass, Fail basis. Internships and Student-Led Groups are graded credit/no credit.

All students involved in foreign language courses numbered 101 (151) and 102 (152) may be required to participate in a continuing program during the Winter Term. Seasonal options and opportunities in Physical Education continue through the Winter Term.

DEPARTMENTAL HONORS PROGRAM

Students may be nominated on the basis of their record as Honors Candidates in their major department at the end of their Junior year or in their Senior year up to the beginning of the Spring

Term. Honors work normally involves a special project. (If course units are allocated for Honor's Research the student registers for an appropriate number of 500 courses). Such projects normally culminate in the presentation of the work in the special project before a board of examiners drawn from the department in which the work is undertaken and one member from outside the department.

Departments award Honors, High Honors and Highest Honors in the particular field on the basis of a composite grade for all work in the major.

These Honors are printed on the Commencement program, and will be certified to, when requested, by a written certificate from the Director of Undergraduate Records and the chairman of the department, stating the nature and quality of the work done.

HONOR CODE

Before enrolling at Middlebury College each student must agree to abide by and uphold the Honor System. This agreement is a condition of matriculation. Under the Honor System all quizzes, pre-announced tests, and final examinations are un-proctored and at the conclusion of the examination the student writes and signs on the examination booklet the following statement:

"I have neither given nor received aid on this examination."

All violations of the Honor Code come under the jurisdiction of the Judicial Council which is totally student managed. Anyone who observes an infraction should report the offense to the Judicial Council. Any infraction of the Honor System is punishable by dismissal from College.

SCHOLARSHIP

When students enter Middlebury College, they become members of an academic community that makes its demands and measures its achievements not so much in terms of time as in terms of the task accomplished. Though they are required to register for a certain number of units each term, their commitment to their education will undoubtedly involve many more hours a week in reading, in laboratory work, and in preparation for classes than they will spend attending classes.

Grades are recorded A, B, C, D and F. Plus and minus designations are used only with A, B and C. D is a probationary grade which while it records a minimal pass is regarded as unsatisfactory performance. F is a failure.

RANKING SYSTEM

College Scholar:	3 A's and a B or better
Dean's List:	4 B's or better
Probation:	2 D's
	1 D, 1 F
	F in Winter Term
	For students completing term with 3 units of credit: 1 D or 1 F
Failure:	3 D's
	2 F's
	1 F and 2 D's
	2 D's or 1 F while on Probation
	F in Winter Term while on probation
	3 times on probation
	For students completing term with 3 units of credit: 1 F and 1 D or 2 D's or a second term in succession of probationary standing
	"First-term freshmen who have two F's and two C's or better or three D's and one C or better at the end of their first term will be continued in college on academic probation. 2 D's and 1 F constitute Failure."

ACADEMIC HONORS

The College recognizes superior academic achievement in the following ways:

Phi Beta Kappa. The Middlebury Chapter of Phi Beta Kappa Society is the Beta of Vermont, established in 1868. Students are elected to Phi Beta Kappa by the faculty members of the chapter on the basis of outstanding academic achievement in all fields of their endeavor. Special consideration is given to the attainment of Honors or High Honors in the major department. Students are eligible for election at the beginning of their senior year on the basis of three years' work at Middlebury, or at the end of their senior year on the basis of four years' work at Middlebury. Students graduating from Middlebury who have transferred from other colleges may be elected on the basis of at least two years at Middlebury.

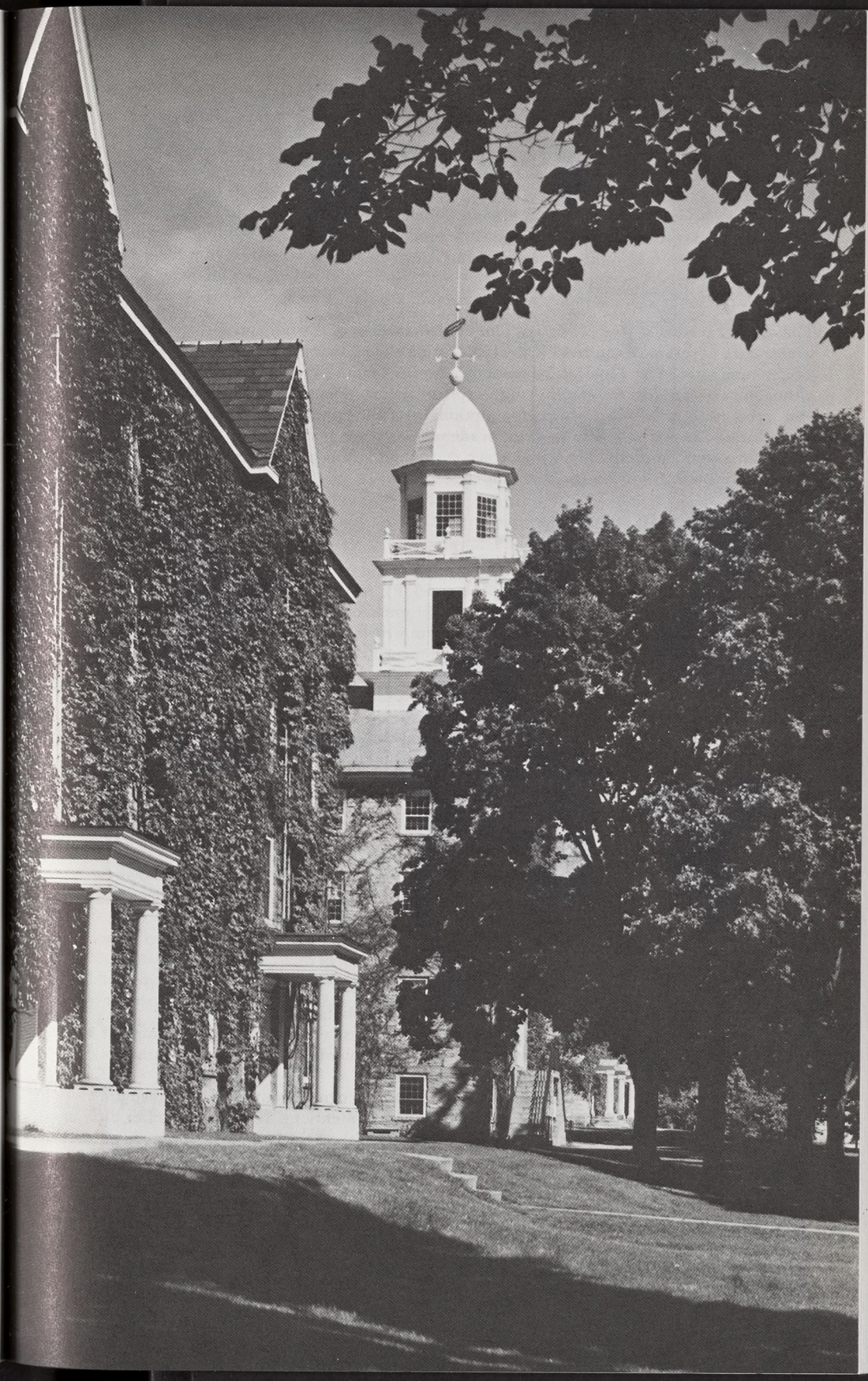
Departmental Honors Program. Departmental Honors are awarded upon graduation in recognition of superior performance in the student's major field. See description of this program.

Commencement Honors. Commencement honors are awarded for high scholastic rank. Graduation honors are *summa cum laude, magna cum laude,* and *cum laude.*

Honorary Appointments. The faculty makes honorary Commencement appointments: to the senior attaining highest rank, the appointment of Valedictorian; to the second in rank, the appointment of Salutatorian.

Transfer students are not eligible for these appointments.

Prizes, Scholarships, Fellowships. A number of awards providing honorary or financial recognition of academic achievement have been established. Some of these awards are granted during the student's undergraduate career. Others provide assistance for graduate work. A complete listing of Scholarships, Prizes and Awards is found on following pages.



Course Offerings

NORMAL PROGRAM

The normal academic year consists of four courses in each of the fall and spring terms, and one winter term program. Required Physical Education classes are carried as electives without credit as a course unit. The Physical Education program may be completed without extra charge although there are fees for certain courses (presently for lessons in karate, scuba, riding, skiing and cross-country skiing) which are optional to the student. Only students who have demonstrated superior ability in their academic work are permitted to take more than four courses in a term. Students who wish to take more than four courses in a fall or spring term must obtain permission from the Dean of Students.

FRESHMAN PROGRAM

All freshmen must take one of the courses in the writing program: These include all courses in English at the 100 level (except EL 110, 111 and 112); American Literature 101; one section of Art 101; one section each of Classics 150 and 151; one section each of History 103 and 203; two sections of Theatre 106; and approved winter term writing courses when offered. The successful completion of one of these courses is a graduation requirement. Students should begin work on their Physical Education Program during the freshman year. Normally, only those courses numbered from 100 to 190 are open to freshmen. Freshmen enrolled in a course within a department, however, may be assigned to a more advanced course by that department upon demonstration of special proficiency. Freshmen may not elect more than one course in a subject in any one term. (AL 101 and courses in EL Freshman Writing Program may not be taken simultaneously.)

MAJOR PROGRAM, CONCENTRATION AND FOUNDATIONS COURSES

To obtain a Middlebury College undergraduate degree each student must complete a major, a concentration and a foundations course in each of three divisions.

MAJOR

Students must choose a major at the end of the freshman year.

In registering for the major program the student normally consults the chairman of his or her chosen department. The chairman appoints a departmental adviser who recommends a pattern of courses for the student's subsequent years.

In addition to specific courses required for a major, cognate courses may be recommended to further the student's particular academic interests or intentions. Departments offer different programs of Senior Work adjusted both to the nature of the field and to the student's needs. A department may offer as many as three units of Senior Work outside the regular course pattern. This Senior Work may consist of Independent Study (a 700 course) and/or General Examination (a 705 course), Senior Seminar (a 704 course) or Senior Course (a 710 course). Students should consult the descriptions of the Senior Work under each department for details. The Senior Work courses may be distributed over fall, winter, and spring terms. Where a joint major involving two or more departments is desirable a single General Examination may be required. Details should be worked out with department chairmen involved.

Should students not be satisfied with their first choice of major they may, before the beginning of the third year, change to another major. Prior to the change, however, they should obtain assurance from the department to which the change is contemplated that they will be able to meet its major requirements. To complete a change in major, a "Major/Adviser Change Form" must be obtained at the Dean of Students' Office, completed, and returned to that office. After the beginning of the third year students may change majors only for exceptional reasons and with the consent of the Dean of Students.

Specific course requirements for each major are listed under the Department involved. A minimum of 10 courses must be completed in the major. The official majors offered at Middlebury College are:

American Literature
American Studies
Art
Biology
Biology-Chemistry (Joint Major)
Chemistry
Classical Studies
East Asian Studies
Economics
English
Environmental Studies (Biology)
Environmental Studies (Chemistry)
Environmental Studies (Economics)
Environmental Studies (Geography)
Environmental Studies (Geology)
Environmental Studies (Physics)
French
Geography
Geology
German
History
Italian
Mathematics
Music
Northern Studies
Philosophy
Physics
Political Science
Psychology
Religion
Russian
Sociology-Anthropology
Spanish
Theatre Arts

Joint Major: The Biology-Chemistry major (listed above) is a joint major. Other joint majors are programs that combine portions of two of the disciplines in the above list, arranged on an individual basis with the cooperation and approval of the departments concerned. These joint majors are official only after the required program is approved by an adviser from each department, and is on file in writing with the Dean of Students detailing how the minimum combined total of 14 courses will be met.

Double Major: A program in which the student fulfills the complete major requirements of two departments. An adviser from each department is required.

Extended Major: Extended majors are designed to take advantage of the unique opportunities offered by Middlebury's summer and overseas programs. They afford students the opportunity for advanced study in a foreign language of disciplines other than literature. Successful completion of an extended major requires competence in a foreign language and the equivalent of a major in the natural sciences, social sciences or humanities which includes work at Middlebury's summer language schools or schools in Mainz, Madrid, Moscow, Paris or Florence.

CONCENTRATION

A concentration consists of four or more cognate courses based on a central theme. It may be departmental, or governed by an interdisciplinary theme (e.g., Asian Studies, Forms of Romanticism, Philosophy of Science).

Each student chooses or designs a concentration involving work substantially different from that of the major and consisting in most cases of courses from outside of the major division. A list of suggested concentrations designed by faculty precedes the listing of course offerings. Normally a concentration includes several courses beyond the introductory level. Students' concentrations must be approved before the end of their sophomore year.

FOUNDATIONS COURSES

In addition to the major and the concentration each student must pass a foundations course in three of the four academic divisions (Humanities, Foreign Languages, Social Sciences, Natural Sciences). These courses offer introductions to major historical tradition, great ideas and great works, providing foundations for further learning. A list of approved foundations courses precedes the listing of concentrations.

DEGREE REQUIREMENTS

Details on official policies regarding degree requirements, departmental programs, grading, etc., may be found in the latest Middlebury College Handbook.

In addition to the freshman, major, concentration and foundations course requirements, certain additional requirements must be met before the Middlebury College degree is awarded.

1. To be eligible for a degree a student must successfully complete 32 fall and spring term courses or their equivalent, and 4 winter courses or their equivalent. Normally no more than 16 fall and spring courses may be in the same department. A minimum of 10 courses must be completed in the major. Not more than 6 courses with a D grade may be applied to the degree requirement.
2. The last academic year of undergraduate work must be spent in residence in Middlebury, except as provided in approved combined plans with engineering and professional schools, and except for certain students in the Northern Studies Program.
3. All students must complete the Physical Education program.
4. Transfer students are required to complete successfully 18 courses at Middlebury, one of which must be a winter term course.

SPECIAL PROGRAMS

Preprofessional Programs. Students may engage in four-year preprofessional programs that prepare them for studies in medicine, dentistry, veterinary medicine, law, and business and management. These students should register with Dean Walter A. Moyer, Jr., as early as possible, and should periodically check their programs with him and with special advisers for law (Professor Murray Dry) and business (Professor D. K. Smith). In addition, information is available in Dean Moyer's office for students who would like to prepare themselves for specialized fields (e.g., nursing, architecture, and many others), or to undertake graduate studies following their Middlebury work.

Dual Degree Programs. There are two ways to combine studies undertaken at Middlebury with those at a professional school so that a student is eligible for both the Middlebury degree and the professional degree. These programs are possible with schools of medicine, dentistry, veterinary medicine, law, business and management, and engineering. The programs are briefly outlined below. The candidate must register with Dean Walter A. Moyer, Jr., (Adirondack House), Chairman of the Preprofessional Committee, and should consult with him concerning details of the plans.

1. Formal Plans: Formal agreements for combined plans are in effect with a limited number of schools of law, business and management, and engineering. Under these programs, if the candidate fulfills certain specified requirements, he or she may transfer to the professional school after completion of three years of work at Middlebury. When transferring to a law school or to a graduate school of business and management, the student is eligible for the Middlebury B.A. after successful completion of the first year of work at the professional school. If the student elects to transfer into a B.S. program in engineering, he or she is eligible for the Middlebury B.A. after receipt of the engineering degree. All such programs must be screened by the Preprofessional Committee of Middlebury College. In some cases a recommendation from the Preprofessional Committee will serve to automatically admit the candidate to the professional school.

2. Student Initiated Plans: It is possible for a well qualified student to make arrangements to transfer after his or her third year at Middlebury to a certified school of law, medicine, dentistry, veterinary medicine, engineering, or graduate school of business and management, and become eligible for the Middlebury B.A. In these programs it is the responsibility of the candidate to make all of the necessary arrangements for transfer, and he or she must gain acceptance by the professional school. The Preprofessional Committee will screen all such candidates and shall be responsible for verifying whether or not the professional program is fully accredited, and for determining whether or not all Middlebury requirements have been met. On the basis of this appraisal the committee will recommend or not recommend the candidate for admission to the professional school and for the Middlebury B.A. Recommendation by the committee does *not* guarantee admission to the professional school. If the candidate is recommended by the committee, and this recommendation is approved by the Administration Committee and the Faculty and Trustees of Middlebury College, he or she is eligible for the Middlebury B.A. after successful completion of the first year of study in a graduate-level program, or upon receipt of a B.S. degree in engineering.

Junior Year Abroad. Interested students should discuss their plans early with their faculty advisers and the Chairman, Programs Abroad Committee.

Washington Semester Program. Selected students each year spend one term in the national Washington Semester Program administered by American University. Interested students should contact Professor Paul Nelson, Political Science Department.

Pre-Architecture. Selected students may spend their junior year in New York City with the undergraduate program of the Institute for Architecture and Urban Studies. Interested students should contact Professor Glenn Andres, Art Department.

Exchange Programs. Middlebury has an arrangement with Berea College in Kentucky, St. Olaf's College in Minnesota and M.I.T. for one-to-one student exchanges during Winter Term and with Swarthmore College during Fall and Spring Terms. For information see the Dean of Students.

Independent Scholar Program. The purpose of this program is to allow the student of demonstrated motivation and ability to define individual educational goals and assume personal responsibility for attaining them independent of the College's normal curricular requirements. It is the normal expectation that students will apply for Independent Scholar status in the sophomore or junior year. Students interested should consult the Chairman of the Independent Scholar Committee.

Teacher Education Program. Middlebury offers an interdisciplinary program of courses to prepare interested students to teach elementary or secondary school by introducing them to the appropriate areas of scholarship in history, philosophy, psychology, and sociology in addition to courses offered in Teacher Education. For a complete description of this program, see Teacher Education course listings.

American Studies. Programs are offered to provide students the opportunity to work in related aspects of American culture. The departments which serve as core departments for these programs are: Political Science, Sociology-Anthropology, American Literature, and History. For complete descriptions of these programs see the Program in American Studies in the course description section of this catalogue.

Environmental Studies. Middlebury offers an interdisciplinary major in Environmental Studies, with fields of emphasis in Ecology, Environmental Chemistry, Environmental Geology, Human Ecology, Environmental Physics, and Environmental Economics. Interested students should consult Professor H. E. Woodin, Coordinator of Environmental Studies, about specific course requirements. This program is best started in the freshman year.

Northern Studies. The goal of this program is to provide students with a strong multidisciplinary course of study in the rapidly developing field of Northern Studies. For a complete description of the program, see Northern Studies in the course description section of this catalogue.

FOUNDATIONS COURSES

The foundations course requirement applies to all Middlebury students beginning with the class entering in fall, 1977. Each student must pass at least one foundations course in each of three divisions before the end of his or her sophomore year. (Students may take more courses which are designated as foundations courses.) A list of foundations courses arranged by division follows. The descriptions of these courses will be found among the departmental listings where foundations courses are identified with an *(asterisk). Bracketed courses will not be offered in 1979-80.

FOREIGN LANGUAGES DIVISION

CL 121 The Classical Tradition of the Liberal Arts and Sciences
FL 201 Introduction to Linguistics
[FL 205 The Nature of Language]
FL 251 Literature and Revolution
RU 151 Russian Literature's Golden Age (1830-1880)
RU 152 Revolutionary Literature in a Revolutionary Society: Russian Modernism (1880-present)
SI 290 Dante: The Divine Comedy (in English)

HUMANITIES DIVISION

AL 101 The American Character in Literature
AR 101 An Introduction to Art and Art History
EL 110 Continental Fiction
EL 111 European Drama: Renaissance to Modern
EL 112 Mythologies Timeless and Timely, Traditional and Contemporary
HM 150 Foundations of the Western Intellectual Traditions: Antiquity to the Reformation
[HM 160 The Origins of Modern Thought: Science, Religion, Society]
MU 109 The Rudiments of Music
RE 105 Introduction to the English Bible
RE 110 Introduction to Western Religious Life and Thought
RE 115 Introduction to Eastern Religious Life and Thought
RE 220 The Shaping of American Religious Life
TH 116 Masters and Masterworks of Theatre I
TH 126 Masters and Masterworks of Theatre II

NATURAL SCIENCES DIVISION

CH 110 Chemistry — the Formative Years 1800-1915
GL 102 Dynamic Earth
GL 172 Global Tectonics
MA 105 Finite Mathematics: Probability, Statistics and Matrices
MA 107 Foundations of Mathematics
[MA 227 Set Theory]
PH 101 The Nature of Things: Physical Reality and Human Thought
PH 155 Introduction to the Universe

SOCIAL SCIENCES DIVISION

HI 103 Turning-points in Early Modern History
HI 104 The Formation of the Nation State in Western Europe, 1600 to Modern Times
PS 101 Introduction to Political Science
PS 107 Politics and the Studies of Politics
PY 105 Foundations of Psychological Thought
SA 105 Social Man and Social Order: Issues in Freedom and Constraint

CONCENTRATIONS

The following is a list of concentrations proposed by the faculty. A concentration consists of four or more courses governed by a general principal. Each student who satisfies his or her graduation requirements in part by taking a concentration, chooses or designs a concentration which involves work substantially different from that of his or her major division. The student's concentration must be approved by the Curriculum Committee before the end of his or her sophomore year. Every concentration on the following list will be considered approved, the only question for the Curriculum Committee being whether it is an appropriate concentration for a student with a particular major. In addition, students may propose concentrations of their own design, which will be considered individually for approval by the Curriculum Committee.

Interdisciplinary and Interdepartmental

CN 001 AMERICAN RELIGIOUS HISTORY

1. **HI 203-HI 204 United States History**
2. **RE 306 The Puritan Tradition in America**
3. **RE 308 Seminar in American Religious History**
4. ***RE 220 The Shaping of American Religious Life**

CN 002A APPLIED MATHEMATICS IN BIOLOGY

1. ***MA 105 Finite Mathematics**
2. **MA 112 Mathematical Analysis I**
3. **BI 125 Introduction to Biological Principles**
4. **BI 314 Molecular Genetics *or***
   [BI 410 Evolutionary Biology]

CN 003 APPLIED MATHEMATICS IN PHYSICS

1. **MA 112 Mathematical Analysis I**
2. **MA 113 Mathematical Analysis II**
3. **PH 109 Mechanics and Thermodynamics**
4. **PH 110 Electricity and Magnetism**
5. ***PH 155 An Introduction to the Universe *or***
   [PH 266 Contemporary Astronomy and Astrophysics]

CN 004A ASIAN STUDIES

Any four courses from the list below, concentrating either on 1) a particular country (e.g. China), or 2) a particular issue (e.g. Social Structure and Social Change in Asia.) Please discuss with your adviser:

AR 203 The Art of India
AR 204 The Art of China
[AR 208 The Art of Japan]
FL 220 Modern Asian Fiction in Translation
[GG 330 South and East Asia]
HI 207 Imperial China
HI 424 Communism in China
PS 210 The Politics of Development
RE 210 The Buddhist Tradition
SA 335 Chinese Society and Culture

CN 005A BASIC NEUROSCIENCES

1. **PY 301 Physiological Psychology**
2. **BI 220 Comparative Chordate Morphology**
3. **BI 320 Comparative Animal Physiology**
4. **BI 350 Cellular Biology**

CN 008 CHINESE STUDIES

1. CS 201-202 Intermediate Chinese

Two of the following:

2-3. HI 207 Imperial China
HI 424 Communism in China
SA 335 Chinese Society and Culture

Two of the following:

4-5. AR 204 The Art of China
FL 220 Modern Asian Fiction in Translation
CS 225 Chinese Poetry in Translation
[GG 330 South and East Asia]
PS 210 The Politics of Development
RE 210 The Buddhist Tradition
SA 380 Anthropology of Religion

CN 114 THE CLASSICAL HERITAGE: PHILOSOPHY AND RELIGION

Any four of the following:

*HM 150 Foundations of the Western Intellectual Tradition
*CL 121 The Classical Tradition of the Liberal Arts and Sciences
[PA 247 Ancient Greek Philosophy]
PS 317 Political Philosophy: The Classical Tradition
*RE 110 Introduction to Western Religious Life and Thought

CN 010A CLINICAL-EXPERIMENTAL STUDIES

1. PY 301 Physiological Psychology
2. PY 325 Abnormal Psychology
3. BI 314 Molecular Genetics
4. PA 352 Philosophy of Mind

CN 012A CULTURES IN TRANSITION

1. HI 211 African History
2. SA 222 Native Peoples of South America
3. PY 411 Contemporary Issues in Psychology
4. GG 352 The Geography of Development

CN 013A DEVIANT BEHAVIOR

1. SA 352 Social Psychology
2. SA 387 Sociology of Law
3. SA 388 Deviance
4. PY 325 Abnormal Psychology

CN 014A EARLY CHURCH HISTORY TO THE REFORMATION

1.*HM 150 Foundations of Western Intellectual Traditions
2. HI 325 The Civilization of the Dark Ages
3. HI 326 The Medieval Outlook
4.[HI 327 Europe in the Renaissance]
5.[HI 328 The Reformation]

CN 015 ECONOMETRICS

1.*MA 105 Finite Mathematics
2. MA 112 Mathematical Analysis I
3. EC 210 Economic Statistics
4.[EC 410 Econometrics]

CN 016A ENVIRONMENTAL STUDIES

1. NS 150 Environmental Science
2.[GI 112 Environmental Geology]
3. BI 190 General Ecology

4. GG 354 Weather and Climate
5. EC 365 Environmental Economics

CN 017 FOUNDATIONS OF MATHEMATICS

1.*MA 107 Foundations of Mathematics
2. MA 112 Mathematical Analysis I
3. MA 113 Mathematical Analysis II
4.[PA 236 Philosophy of Mathematics]
5.[PA 360 Intermediate Logic]

CN 018A IMPERIALISM

1.[HI 413 Writing and Research, Imperialism]
2. HI 211 African History
3. PS 318 Political Philosophy
4. PS 210 The Politics of Development

CN 019 LATIN AMERICA AND ITS ANTECEDENTS

1.[SA 222 Native Peoples of South America]
2. SA 326 Latin American Society and Culture
3. SI 320 Introduction to Spanish Culture and Civilization
4.[SI 330 Latin American Culture]
5.[SI 331 Folklore and Literature]

CN 020A MATHEMATICS, ECONOMICS AND MODELS

1. MA 112 Mathematical Analysis I
2. MA 113 Mathematical Analysis II
3. EC 150 Introductory Economics (Macro) *or*
   EC 155 Introductory Economics (Micro)
4.[MA 315 Mathematical Models in the Social and Management Sciences] *or*
  [MA 318 Operations Research]
5. EC 355 Microeconomic Theory

CN 021A PERSONALITY AND ITS DETERMINANTS

1.[SA 351 Psychological Anthropology]
2. SA 352 Social Psychology
3. PY 204 Introduction to Personality
4. PY 225 Child Psychology

CN 022 QUANTUM REVOLUTION IN PHYSICS AND CHEMISTRY

1. CH 101 Fundamentals of Chemistry
2. PH 109 Mechanics and Thermodynamics
3. MA 112 Mathematical Analysis I
4. MA 200 Linear Algebra
5.[CH 452 Physical Chemistry III]

CN 024A RENAISSANCE CULTURE

1. EL 303 English Literature of the 16th Century
2.[HI 327 Europe in the Renaissance]
3. AR 201 Art of the Italian Renaissance
4. EL 321 or EL 322 Shakespeare *or*
  [EL 224 Medieval and Renaissance Drama]

CN 025 REVOLUTIONS

1.*HI 104 Formation of the Nation State in Western Europe
2.[HI 414 Marxism and European Socialism]
3. PS 210 The Politics of Development
4.*FL 251 Literature and Revolution

CN 027A THE SOVIET WORLD

Any four of the following:

EC 335 Comparative Economic Systems
HI 313 Russian History to the Great Reforms
HI 314 Russian History from the Great Reforms to the Present
[PS 408 United States/Soviet Union Relations in the 1970's]
*RU 151 Russian Literature's Golden Age (1830-1880)
*RU 152 Russian Modernism

CN 028A THIRD WORLD STUDIES

1. HI 211 African History
2. PS 210 The Politics of Development
3. PS 404 Poverty and Progress in the Third World
4. [HI 210 Modern Middle East History]
5. [GG 330 South and East Asia]

CN 110 INTERNATIONAL POLITICS IN AN HISTORICAL PERSPECTIVE

Any four of the following:

HI 315 History of Modern Europe (1815-1900)
HI 316 History of Modern Europe (1900-1968)
PS 201 International Politics
PS 405 Seminar on the Causes of War
PS 412 Seminar on Diplomacy

CN 111 SOCIETY AND CULTURE IN MODERN EUROPE

Any four of the following:

AR 305 Painting and Sculpture of 19th Century Europe
*EL 110 Continental Fiction
HI 315 History of Modern Europe (1815-1900)
HI 316 History of Modern Europe (1900-1968)
HI 411 Writing and Research, War of Illusions

Departmental

AMERICAN LITERATURE

CN 029A LITERATURE AND THE AMERICAN PEOPLE

1. *AL 101 The American Character in Literature
2. AL 204 Recent American Literature *or*
   AL 302 Twentieth Century Novel
3. AL 401 Folklore and Mythology
4. AL 402 Folklife

CN 030A LITERARY GENRES

1. AL 202 American Literature (1830-1865)
2. AL 203 American Literature (1865-1940)

3-4. *Two of the following:*

AL 301 The American Novel
AL 303 American Short Story
AL 304 Modern American Poetry

CN 031A LITERARY HISTORY

1. AL 201 American Literature (1620-1830)
2. AL 202 American Literature (1830-1860)
3. AL 203 American Literature (1860-1940)
4. AL 204 Recent American Literature

ART

CN 032 ART HISTORY

1. [AR 311 Ancient Art]
2. AR 305 19th Century *or*
   AR 201 Italian Renaissance *or*
   [AR 207 American Art]
2. AR 203 Art of India *or*
   AR 204 Art of China *or*
   [AR 208 Art of Japan]
4. [AR 301 Modern Architecture] *or*
   AR 207 Art of the City
5. AR 102 Twentieth Century Painting and Sculpture

CN 033 THE ART OF EUROPE, RENAISSANCE AND BAROQUE

1. *AR 101 Introduction to Art
2-4. Any three additional courses in the Art of Europe, 1300-1700
5. A seminar or 500's project in the art of this period

CN 034 MODERN ART

1. *AR 101 Introduction to Art
2-4. Any three additional courses in the art of mid-18th century to the present
5. A seminar or 500's project in the art of this period

CN 035 ORIENTAL ART

1. *AR 101 Introduction to Art (recommended, not required)
2-4. Three additional courses in art of the Orient
5. A 500's project in Oriental Art

CN 036A STUDIO ART

1. AR 102 Modern Art
2. AR 209 Design
3. AR 210 Design
4-5. *One of the following two-term sequences in studio:*
   AR 309-310 Painting
   AR 205-206 Figure Drawing
   AR 315-316 Printmaking
   AR 319-320 Sculpture

BIOLOGY

CN 037A ENVIRONMENTAL BIOLOGY

1. BI 125 Introduction to Biological Principles
2. BI 203 Botany
3. BI 190 General Ecology
4. BI 311 Ecosystem Analysis *or*
   BI 316 Animal Behavior

CN 038A GENERAL BIOLOGY

1. BI 125 Introduction to Biological Principles
2. BI 225 Human Genetics
3. BI 205 Developmental Biology *or*
   BI 203 Botany
4. BI 316 Animal Behavior *or*
   BI 220 Comparative Chordate Morphology

CN 039A BIOLOGY OF MOLECULES

1. BI 125 Introduction to Biological Principles

2. CH 101 Fundamentals of Chemistry
3. CH 241 Organic Chemistry I
4. BI 314 Molecular Genetics
5. BI 250 Organelles and Cells

CN 040A PHYSIOLOGICAL BIOLOGY

1. BI 125 Introduction to Biological Principles
2. BI 250 Organelles and Cells
3. BI 303 Plant Physiology *or*
   BI 305 Microbial Biology
4. BI 320 Comparative Animal Physiology

CHEMISTRY

CN 041 BIOCHEMISTRY

1. CH 101 Fundamentals of Chemistry
2. CH 241 (247) Organic Chemistry I
3. CH 242 (248) Organic Chemistry II
4. CH 422 Biochemistry
5. CH 421 Biochemistry *or* New Biochemistry Laboratory

CN 042A CELLULAR STRUCTURE AND FUNCTION

1. CH 101 Fundamentals of Chemistry
2. BI 125 Introduction to Biological Principles
3. CH 241 (247) Organic Chemistry I
4. BI 250 Organelles and Cells
5. [BI 408 Advanced Topics in Cellular Biology (optional)]

CN 043 ENVIRONMENTAL CHEMISTRY

1. NS 150 Environmental Science
2. CH 101 Fundamentals of Chemistry
3. CH 131 (137) Systematic Inorganic Chemistry
4. CH 211 (217) Analytical Chemistry I

CN 044 INORGANIC CHEMISTRY

1. CH 101 Fundamentals of Chemistry
2. CH 131 (137) Systematic Inorganic Chemistry
3. CH 211 (217) Analytical Chemistry I
4. CH 351 (357) Physical Chemistry I
5. CH 431 Advanced Inorganic Chemistry (optional)

CN 045A MOLECULAR BIOLOGY

1. CH 101 Fundamentals of Chemistry
2. CH 241 (247) Organic Chemistry I
3. CH 242 (248) Organic Chemistry II
4. BI 125 Introduction to Biological Principles
5. BI 314 Molecular Genetics

CN 046 ORGANIC CHEMISTRY

1. CH 101 Fundamentals of Chemistry
2. CH 241 (247) Organic Chemistry I
3. CH 242 (248) Organic Chemistry II
4. CH 341 (347) Organic Chemistry III *or*
   CH 443 Advanced Organic Chemistry

CLASSICS

CN 115 CLASSICAL GREEK

Four courses in Greek beyond the intermediate level

CN 116 GREEK LANGUAGE AND LITERATURE IN TRANSLATION

1. CL 303 Greek Poetry
2. CL 304 Greek Prose

3-4. *Two of the following:*

- CL 150 The Ancient Epic: Heroes, Mock Heroes, Anti-Heroes
- EL 227 Greek and Roman Drama
- PA 247 Ancient Greek Philosophy
- PS 317 Classical Political Philosophy

CN 117 LATIN LANGUAGE AND LITERATURE IN TRANSLATION

1. CL 301 Roman Poetry
2. CL 302 Roman Prose
3. CL 151 Masterpieces of Roman Literature
4. HI 201 Roman History: The Republic *or*
   HI 202 Roman History: The Empire

ECONOMICS

CN 047 ECONOMIC THEORY

1. EC 150 Introductory Economics (Macro)
2. EC 155 Introductory Economics (Micro)
3. EC 350 Macroeconomic Theory
4. EC 355 Microeconomic Theory
5. One applied course

CN 048 INDUSTRIAL DEVELOPMENT

1. EC 150 Introductory Economics (Macro)
2. EC 155 Introductory Economics (Micro)
3. EC 330 The Economics of Development
4. EC 335 Comparative Economic Systems
5. HI 302 Economic History of the United States *or*
   HI 314 Russian History from the Great Reforms to the Present

CN 049A INDUSTRIAL ECONOMICS

1. EC 155 Introductory Economics (Micro)
2. EC 355 Microeconomic Theory
3. EC 460 Industrial Organization and Public Policy
4. EC 315 Accounting
5. EC 380 Political Economy *or*
   EC 320 The Corporation

CN 050A INTERNATIONAL ECONOMICS

1. EC 150 Introductory Economics (Macro)
2. EC 155 Introductory Economics (Micro)
3. EC 350 Macroeconomic Theory *or*
   EC 355 Microeconomic Theory
4. EC 330 The Economics of Development
5. EC 440 The Economics of International Trade *or*
   EC 445 International Finance

CN 051A MONETARY ECONOMICS

1. EC 150 Introductory Economics (Macro)
2. EC 350 Macroeconomic Theory
3. EC 370 Monetary Theory and Institutions
4. EC 445 International Finance

ENGLISH

CN 052A CREATIVE WRITING: POETRY

1. EL 103 Lyric and Narrative Poetry
2. EL 175 Poetry I
3. EL 275 Poetry II
4. *One of the following:*
   - EL 460 Workshop in Poetry and Prose Fiction
   - EL 212 Modern British Poetry
   - EL 313 English Romanticism
   - EL 314 Victorian Poetry
   - AL 304 Modern American Poetry

CN 053A CREATIVE WRITING: PROSE

1. EL 101 Narrative Fiction
2. EL 170 Prose Fiction I
3. EL 270 Prose Fiction II
4. *One of the following:*
   - EL 460 Workshop in Poetry and Prose Fiction
   - [EL 206 The Early Novel]
   - EL 207 Nineteenth Century Fiction
   - EL 208 The Twentieth Century English Novel
   - AL 301 The American Novel
   - AL 302 The American Novel

CN 054 DRAMATIC LITERATURE

1. [EL 227 Greek and Roman Drama]
2. [EL 224 Medieval and Renaissance Drama]
3. EL 321 or 322 Shakespeare
4. TH 326 Modern Drama

CN 056 THE NOVEL

Any four of the following:

- [EL 206 The Early Novel]
- *EL 110 Continental Fiction
- EL 207 Nineteenth Century Fiction
- EL 208 The Twentieth Century English Novel
- AL 301 The American Novel
- AL 302 The American Novel

FRENCH

CN 057A FRENCH LANGUAGE AND CIVILIZATION

1. FR 205 Toward Liberated Expression
2. FR 206 Introduction to Contemporary France
3. FR 222 Facets of a Changing France
4. FR 313 French Civilization in the Twentieth Century *or its equivalent in France*

CN 058 FRENCH LANGUAGE AND LITERATURE

1. FR 205 Toward Liberated Expression

2-3. *Two of the following:*

- FR 207 Introduction to French Poetry
- FR 208 Introduction to French Theater
- FR 209 Introduction to French Prose

4 One Literature course at the 300 level

CN 118 FRENCH CIVILIZATION

1. FR 206 Introduction to Contemporary France

2. FR 222 Facets of a Changing France
3. FR 313 French Civilization in the 20th Century *or its equivalent in France*
4. FR 310 Literature and Society in the Ancien Regime *or*
   FR 315 19th Century Novel

CN 119 FRENCH LITERATURE

1-2. *Two of the following:*
   FR 207 Introduction to French Poetry
   FR 208 Introduction to French Theater
   FR 209 Introduction to French Prose
3-4. Two literature courses at the 300 level

GEOGRAPHY

CN 120 GEOGRAPHICAL ANALYSIS OF HUMAN ACTIVITY

1. GG 100 The Geographic Perspective
2. GG 260 Human Geography
3. GG 351 The Urban World: Patterns, Problems and Policies
4. GG 352 The Geography of Development

CN 121 HUMAN ACTIVITY IN THE PHYSICAL ENVIRONMENT

1. GG 100 The Geographic Perspective
2. GG 250 Physical Earth Processes
3. GG 353 Natural Hazards
4. GG 354 Weather and Climate

GEOLOGY

CN 063 GEOLOGY AND PETROLOGY OF PLANETARY BODIES

1.*PH 155 An Introduction to the Universe
2. GL 192 Planetary Geology
3. GL 392 Igneous Petrology
4. GL 492 Advanced Petrology

CN 064A THE GEOLOGIC ENVIRONMENT

1.[GL 112 Environmental Geology] *or*
   GL 161 Elements of Oceanography
2. GL 252 Geomorphic Processes
3. GG 354 Weather and Climate
4. GL 550 Readings and Research

CN 065 STRUCTURAL GEOLOGY

1.*GL 172 Global Tectonics
2. GL 381 Structural Geology
3. GL 392 Igneous Petrology
4.[GL 481 Geophysics] *or*
   GL 491 Metamorphic Processes

GERMAN

CN 068 GERMAN LANGUAGE AND LITERATURE

1. GN 201 Intermediate German
2. GN 202 Advanced German
3-4. Two courses numbered 300 or higher. These courses may be taken in the German Dept. or in the Middlebury College German School during the summer.

HISTORY

CN 069A AMERICAN HISTORY

1. HI 203 US History (1492-1861)

2-4. *Three of the following:*
- HI 204 US History (1861-1977)
- [HI 302 Economic History of the United States]
- HI 303 Era of the American Revolution (1763-1800)
- [HI 305 Twentieth Century America (1900-1940)]
- HI 306 Twentieth Century America (1938-1978)
- [HI 307 Black History]
- HI 308 American Intellectual History
- [HI 380 The Era of the Civil War and Reconstruction]

5. HI 435 Readings in American History

CN 070 ENGLISH CHURCH HISTORY

1. [HI 428 England (1530-1668), Protest and Rebellion]
2. HI 418 Writing and Research in English Church History
3. [HI 423 The Stuart Period]
4. HI 425 Henry VIII and the Historians
5. HI 318 English History as Background for English Literature

CN 071A MODERN EUROPE

1. *HI 103 Turning-points in Early Modern History
2. *HI 104 Formation of the Nation State in Western Europe

3-4. *Two of the following:*
- HI 314 Russian History from the Great Reforms to the Present
- HI 315 History of Modern Europe (1815-1900)
- HI 316 History of Europe (1900-1968)
- HI 317 History of France from the Old Regime to the Twentieth Century

5. [HI 421 Germany (1918-1933)] *or*
   HI 427 Criticism and the Birth of the Modern World: Marx, Engels, and Marxism
   or
   [HI 428 England (1530-1668)]

CN 072 THE RISE OF EUROPE

1. *HI 103 Turning-points in Early Modern History
2. HI 313 Russian History to the Great Reforms

3-4. *Two of the following:*
- HI 325 Civilization of the Dark Ages
- HI 326 The Medieval Outlook
- [HI 327 Europe in the Renaissance]
- [HI 328 The Reformation]

MATHEMATICS

CN 073 APPLICATIONS

1. MA 112 Mathematical Analysis I
2. MA 113 Mathematical Analysis II
3. [MA 315 Mathematical Models in the Social and Management Sciences]
4. [MA 318 Selected Topics in Operations Research]

CN 074 ANALYSIS

1. MA 112 Mathematical Analysis
2. MA 113 Mathematical Analysis II
3. MA 201 Mathematical Analysis III
4. MA 202 Mathematical Analysis IV

CN 075 AXIOMATIC MATHEMATICS

1. A Foundations Course in Mathematics
2. *MA 105 Finite Mathematics

3. MA 200 Linear Algebra
4. MA 411 Elementary Topology

CN 076A METHODOLOGY OF COMPUTERS
1. MA 112 Mathematical Analysis I
2. MA 223 Computer Programming II
3. MA 200 Linear Algebra
4. [MA 323 Computer Systems and Assembly Language Programming]
5. MA 325 Data Structures and File Processing

CN 077 DISCRETE MATHEMATICS
1. *MA 105 Finite Mathematics
2. MA 200 Linear Algebra
3. MA 220 Graph Theory and Combinatorics
4. [MA 321 Elementary Number Theory]

CN 078 PROBABILITY
1. MA 112 Mathematical Analysis I
2. MA 113 Mathematical Analysis II
3. MA 201 Mathematical Analysis III
4. MA 310 Probability

MUSIC

A concentration in Music shall consist of four courses at least two of which shall be in different areas of the discipline: performance, history, theory or dance. At least one course of the four shall be at the 300 or 400 level. The following list does not exhaust the possible Music concentrations:

CN 079A MUSIC
1. *MU 109 Rudiments of the Musical Language
2. MU 220 or MU 221 Survey of Music History
3. MU 324 Music in the Romantic Era
4. MU 306 Performance

CN 080 MUSIC: DANCE
1. *MU 101 Introduction to Music Styles
2. MU 140 Introduction to Dance
3. MU 260 or MU 261 Intermediate Dance Technique
4. MU 360 or MU 361 Advanced Dance Technique

CN 081 MUSIC: HISTORY
1. MU 220 Survey of Music History
2. MU 221 Survey of Music History
3. MU 325 Music in the 20th Century
4. MU 140 Introduction to Dance

CN 082A MUSIC: PERFORMANCE
1. MU 306 Performance
2. MU 307 Performance
3. MU 500 Independent Project in Recital
4. MU 220 or MU 221 Survey of Music History

CN 083A MUSIC: THEORY
1. MU 209 Theory
2. MU 210 Theory
3. MU 309 Analysis
4. MU 220 or MU 221 Survey of Music History

PHILOSOPHY

CN 084 CONTEMPORARY PHILOSOPHY

1.[PA 223 An Introduction to Contemporary Philosophy]
2. PA 307 Twentieth Century Ethics
3. PA 352 Philosophy of Mind *or*
PA 354 Philosophy of Language *or*
PA 704 Senior Seminar, when appropriate
4. PA 218 Introduction to Modern Logic

CN 085A HISTORY OF PHILOSOPHY

1.*HM 150 Foundations of Western Intellectual Tradition *or*
[PA 247 Ancient Greek Philosophy]
2.[*HM 160 The Origins of Modern Thought]
3.[PA 223 An Introduction to Contemporary Philosophy]
4. Some course from PA 400-420, Studies in the History of Philosophy

CN 086 LOGIC AND PHILOSOPHY OF SCIENCE

1. PA 218 Introduction to Modern Logic
2. PA 353 Philosophy of Science
3.[PA 223 Introduction to Contemporary Philosophy] *or*
PA 351 Theory of Knowledge
4.[PA 224 Foundations of Contemporary Analytic Philosophy]
[PA 360 Intermediate Logic]

CN 087 VALUE THEORY: ETHICS, AESTHETICS, AND POLITICAL PHILOSOPHY

1. PA 305 Human Nature and Ethics] *or*
[*HM 160 The Origins of Modern Thought]
2. PA 307 Twentieth Century Ethics
3-4. *Two of the following:*
PA 213 Philosophy of Relgion
PA 233 Aesthetics
PS 317 Classical Political Philosophy
PS 318 Political Philosophy: Modernity
PS 333 Twentieth Century Political Thought

PHYSICS

CN 088 PHYSICS

1. Any foundations course in Physics
2. MA 112 Mathematical Analysis I
3. PH 109 Mechanics and Thermodynamics
4. PH 110 Electricity and Magnetism

POLITICAL SCIENCE

CN 089 AMERICAN FOREIGN POLICY

1. PS 102 The American Political Regime *or*
PS 104 Introduction to American Political Processes
2. PS 201 International Politics
3. PS 311 American Foreign Policy
4. PS 408 United States/Soviet Union Relations in 1970's *or*
PS 412 Seminar on Diplomacy

CN 122 AMERICAN POLITICS

1. PS 102 The American Political Regime

2. PS 104 Introduction to American Political Processes
3. Any additional course in American politics.
4. *One of the following:*
   PS 304 American Public Policy
   PS 305 American Constitutional Law: Principles and Structure
   PS 306 American Constitutional Law: Individual Rights
   PS 401 Seminar in Political Philosophy: Liberalism and Marxism
   PS 415 Seminar in American Government: President and Congress

CN 123 COMPARATIVE POLITICS

1. PS 103 Introduction to Comparative Politics
2. PS 210 The Politics of Development
3. PS 225 West European Politics
4. PS 404 Poverty and Progress in the Third World *or*
   PS 406 Politics in France

CN 124 EUROPEAN POLITICS

1. PS 225 West European Politics
2. HI 104 The Formation of the Nation State in Western Europe *or*
   HI 315 History of Modern Europe (1815-1900) *or*
   HI 316 History of Modern Europe (1900-1968)
3. PS 321 Political Organizations *or*
   PS 326 Comparative Foreign Policy
4. PS 406 Politics in France

CN 091A INTERNATIONAL RELATIONS

1. PS 201 International Politics
2. PS 202 Contemporary International Politics *or*
   PS 311 American Foreign Policy
3. PS 200 Empirical Political Analysis
4. PS 405 Seminar on the Causes of War *or*
   PS 412 Seminar on Diplomacy

CN 093 MATTER AND MANNER IN THE STUDIES OF POLITICS

1. PS 101 Introduction to Political Science *or*
   *PS 107 Politics and the Studies of Politics
2. PS 317 Classical Political Philosophy
   PS 318 Political Philosophy: Modernity
3. PS 331 Theory and Method of Political Analysis
4. [PS 333 Twentieth Century Political Thought]

CN 094A POLITICAL PHILOSOPHY

1. *PS 101 Introduction to Political Science *or*
   *PS 107 Politics and the Studies of Politics
2-3. *Two of the following:*
   PS 317 Classical Political Philosophy
   PS 318 Political Philosophy: Modernity
   [PS 333 Twentieth Century Political Thought]
4. PS 401 or PS 409 Seminar in Political Philosophy

CN 125 POLITICS, PHILOSOPHY AND LAW

1. *PS 101 Introduction to Political Science *or*
   *PS 107 Politics and the Studies of Politics
2. PS 102 The American Political Regime
3. PS 305 American Constitutional Law: Principles and Structure *or*
   PS 306 American Constitutional Law: Individual Rights *or*
   PS 401 Seminar in Political Philosophy: Liberalism and Marxism *or*
   PS 415 Seminar in American Government: President and Congress

4. PS 317 Classical Political Philosophy *or*
PS 318 Political Philosophy: Modernity *or*
[PS 333 Twentieth Century Political Thought] *or*
PS 409 Seminar in Political Philosophy

CN 126 THE SUPERPOWERS IN WORLD POLITICS

1. PS 201 International Politics
2. PS 311 American Foreign Policy
3. HI 306 Twentieth Century America (1938-1978) *or*
HI 314 Russian History from the Great Reforms to the Present
4. PS 408 US/Soviet Relations in the 1970s *or*
PS 405 Seminar on the Causes of War *or*
PS 412 Seminar on Diplomacy

CN 127 EUROPEAN DIPLOMACY

1. PS 201 International Politics
2. PS 225 West European Politics
3. HI 315 History of Modern Europe (1815-1900)
HI 316 History of Modern Europe (1900-1968)
PS 326 Comparative Foreign Policy
4. PS 412 Seminar on Diplomacy

PSYCHOLOGY

CN 096A CLINICAL PSYCHOLOGY

1. PY 204 Personality
2. PY 225 Child Psychology
3. PY 325 Abnormal Psychology
4. SA 388 Deviance

CN 097 EXPERIMENTAL-ANIMAL PSYCHOLOGY

1. PY 201 Research and Communication
2. PY 207 Conditioning and Learning
3. PY 301 Physiological Psychology
4. BI 316 Animal Behavior

CN 098A EXPERIMENTAL-HUMAN PSYCHOLOGY

1. PY 201 Research and Communication
2. PY 202 Psychophysics
3. PY 208 Memory
4. PY 203 Social Behavior

CN 099A EXPERIMENTAL PHYSIOLOGICAL PSYCHOLOGY

1. PY 201 Research and Communication
2. PY 301 Physiological Psychology
3. PY 412 Research in Physiological Psychology
4. BI 316 Animal Behavior

CN 128 PERSONALITY AND SOCIAL PSYCHOLOGY

Any four of the following:

PY 203 Social Behavior
PY 204 Introduction to Personality
PY 321 Nonverbal Behavior and Communication
PY 325 Abnormal Psychology
SA 352 Social Psychology

CN 129 THE PSYCHOLOGY OF HUMAN BEHAVIOR

Any four of the following:

PY 208 Memory and Conceptual Processes

PY 225 Child Psychology
PY 203 Social Behavior
PY 204 Personality
PY 321 Nonverbal Behavior and Communication

RELIGION

CN 101A PHILOSOPHY OF RELIGION

1.*RE 110 Introduction to Western Religious Life and Thought
2. PA 213 Philosophy of Religion
3. RE 301 Modern Views of God and Religious Life: 19th Century
4. RE 302 Modern Views of God and Religious Life: 20th Century

CN 130 COMPARATIVE RELIGION

1.*RE 110 Introdution to Western Religious Life and Thought
2.*RE 115 Introduction to Eastern Religious Life and Thought
3. RE 303 Theories of Religion *or*
[RE 312 Mysticism East and West]
4. RE 342 Seminar in the History of Religions

CN 131 ASIAN RELIGIONS

1.*RE 115 Introduction to Eastern Religious Life and Thought
2.[RE 209 The Hindu Tradition]
3. RE 210 The Buddhist Tradition
4. RE 311 Buddhist Philosophy
5.[RE 312 Mysticism East and West]

CN 132 BUDDHISM

1.*RE 115 Introduction to Eastern Religious Life and Thought
2. RE 210 The Buddhist Tradition
3. RE 311 Buddhist Philosophy
4.[RE 312 Mysticism East and West]

CN 133 THE CHRISTIAN TRADITION

1.*RE 105 Introduction to the English Bible *or*
RE 281 Studies in the New Testament
2. RE 204 The Jewish and Christian Traditions
3.[HI 318 The Reformation]
4. RE 301 Modern Views of God and Religious Life: 19th Century *or*
RE 302 Modern Views of God and Religious Life: 20th Century

RUSSIAN

CN 102 RUSSIAN

1. RU 101 - 102 Beginner's Russian (2 semesters)
2. RU 201 - 202 Intermediate Russian (2 semesters)
3.*RU 151 Russian Literature's Golden Age (1830-1880) (in English)
4. RU 321 The Soviet Man and His World

CN 103A RUSSIAN LITERATURE IN TRANSLATION

Any four of the following:
*RU 151 Russian Literature's Golden Age (1830-1880)
*RU 152 Revolutionary Literature in a Revolutionary Society
RU 351 Dostoevsky
RU 352 Tolstoy
RU 354 Chekhov

SOCIOLOGY-ANTHROPOLOGY

CN 104A COMPARATIVE CULTURES

Any four of the following:

SA 321 Native Peoples of North America
[SA 322 Native Peoples of South America]
SA 326 Latin American Society and Culture
SA 335 Chinese Society and Culture
SA 343 American Community Studies
SA 354 Ethnic Groups in the United States

CN 105 SOCIOLOGY OF ORGANIZATIONS

1. [SA 345 Work, Leisure and Sport]
2. SA 385 Medical Sociology
3. SA 387 Sociology of Law
4. SA 315 Sociology of Education

CN 134 SIMPLE AND COMPLEX INSTITUTIONS

Any four of the following:

[SA 250 Economic Anthropology]
SA 315 Sociology of Education
SA 345 Work, Leisure, and Sport
SA 380 The Anthropology of Religion
SA 385 Medical Sociology
SA 387 Sociology of Law

CN 135 SOCIAL GROUPS IN AMERICAN SOCIETY

Any four of the following:

SA 316 Sociology of Youth
SA 343 American Community Studies
SA 354 Ethnic Groups in the United States
SA 390 Sociology of Women
SA 391 Advanced Topics in the Sociology of Women

SPANISH/ITALIAN

CN 106 EMPHASIS ON CULTURE

1. SI 219 Writing in Spanish
2. SI 220 Spanish Conversation
3. SI 320 Introduction to Spanish Culture and Civilization
4. [SI 330 Latin American Culture]

CN 107 EMPHASIS ON LANGUAGE

1. SI 201 Intermediate Spanish
2. SI 219 Writing in Spanish
3. SI 220 Spanish Conversation
4. [SI 315 El Arte de la Traduccion]

TEACHER EDUCATION

CN 112 TEACHER EDUCATION (See Teacher Education Program)

THEATRE ARTS

CN 108 ACTING AND DIRECTING

1. *TH 116 or *TH 126 Masters and Masterworks of Theatre
2. TH 102 Acting I
3. TH 214 Directing I

4. TH 326 **Modern Drama**
5. TH 202 **Acting II *or***
[TH 224 **Directing II] *or***
TH 210 **or TH 220 Production Studios *or***
TH 500 **Independent Project**

CN 109 STAGE DESIGN
1.*TH 116 **or *TH 126 Masters and Masterworks of Theatre**
2. TH 214 **Directing I**
3. TH 213 **Stages and Lighting Design**
4. TH 221 **Scene Design *or***
[TH 325 **Costume Design]**
5. TH 219 **or TH 229 or TH 500, Production Studio or Independent Project**

*Foundations course

DEPARTMENTS OF INSTRUCTION

All courses are given as term courses with the exception of Senior Work (700) and 500 courses in an Honors program. These course numbers may signify on-going work, and in such event are marked "S" (Satisfactory progress) or "U" (Unsatisfactory).

Courses numbered 100-199 are usually taken by freshmen; 200-299, by sophomores; 300-399, by juniors; 400-499, by seniors. Schedules are cleared on this basis and conflicts will thus be most easily avoided by taking courses in proper sequence.

At the head of each departmental section, the major is described and the requirements for a major in that department are stated, together with recommended courses.

Prerequisites to a course are shown in parentheses. Courses not being offered in 1979-80 are bracketed. Abbreviations include: Lab., laboratory period; Lect., lecture period.

The College reserves the right, without further notice, to cancel any courses herein described, or to make any other changes in staff, fees, and courses which may be deemed necessary.

Spring Term offerings listed for the year 1979-80 may be incomplete. Departments may be consulted about the possibility of other courses. Winter Term information will be published and distributed separately.

INTERDEPARTMENTAL

ID 100 Intensive Freshman Writing Seminar Fall

One credit. A course intended primarily to improve writing skills. Numerous papers and thorough criticism comprise the basic format. Class discussions focus on analysis of literature and development of analytical skills. This course does not fulfill the freshman writing requirement. Mr. Lindholm

ID 101 Intensive Freshman Writing Seminar Spring

One credit. Similar to ID 100, but with a greater emphasis on developing critical approaches to literature. Assignments include numerous short papers, journal, hour exams, research paper and final exam.

Mr. Lindholm

DIVISION OF FOREIGN LANGUAGES

In addition to courses offered in the departments of Classics, French, German, Russian, and Spanish and Italian, the Division of Foreign Languages offers the following courses which span the boundaries of its separate departments:

***FL 201 Introduction to Linguistics** Spring

An introduction to the study of human language. Some of the major topics to be considered are: nature of human language and how it differs from other communication systems; discovery of the genetic relationship of languages and development of historical and comparative linguistics; aims and methods of descriptive linguistics; articulatory and

acoustic phonetics; phonemics and morphemics; different models of syntactic description; development of and reaction to transformational-generative grammar; semantics; relationship and application of linguistics to other fields of study. Method of instruction: primarily lecture with class participation, problem-solving and several short papers or projects. Mrs. Olinick

[*FL 205 The Nature of Language]

FL 220 Modern Asian Fiction in Translation Spring

A selection of translated works from twentieth century Asia characterized by high literary merit and historical significance. Included will be works by Japanese writers Yukio Mishima, Junichiro Tanizaki and Yasunari Kawabata; Prem Chand and Raja Rao of India; and from China Lu Hsun, Mao Dun and Pa Chin. The course will also include comparison of the above Asian writers with novels by certain Western authors which also treat the turbulent changes of twentieth century Asia, i.e., Pearl Buck, George Orwell, Graham Greene, etc. The course format centers on discussion of each assigned work with prefatory remarks by instructor and short written analyses by students.

Mr. Berninghausen

***FL 251 Literature and Revolution** Fall

A comparative study of twentieth-century literature in which a main concern is political revolution or social upheaval. Fictional works of significant literary value and informed by contrasting ideological perspectives which have dealt with revolutions in various parts of the world will form the central concern of this course. One lecture will treat the social and historical background of the work under consideration and the other lecture will focus on the literary characteristics of the novel or short stories as well as the relationship to literary movements and cultural heritage. The discussion sections will seek to explore the interrelationship between political values contained within each work and the literary techniques which it employs. Guest lectures, selected films and videotapes will augment the readings.

Mr. Berninghausen, Mr. Véguez

[FL 316 Symbolism and Modern Poetry]

[FL 340 The Art and Craft of Translation]

[FL 352 Innocence and Madness in Modern Fiction]

FL 405 Seminar: Kafka Spring

Stories, Letters, Novels, Diaries. (Prerequisite: a literature course at the 300 level or higher.) Mr. Sparks

For additional courses offered in English, see also:

CL 100 Introduction to Classical Studies Spring

***CL 121 The Classical Tradition of the Liberal Arts and Sciences** Fall

CL 150 Ancient Epic: Heroes, Mock Heroes, Anti-Heroes Spring

CL 151 Masterpieces of Roman Literature Fall

CL 220 Introduction to Greek Science Spring

FR 350 French Cinema Fall

***RU 151 Russian Literature's Golden Age (1830-1880)** Fall

***RU 152 Russian Modernism (1880-present)** Spring

SI 290 Dante: *The Divine Comedy Spring

*Foundations Course.

DIVISION OF HUMANITIES

***HM 150 Foundations of the Western Intellectual Traditions: Antiquity to the Reformation** Fall

Through a study of philosophical and theological texts we shall attempt to comprehend the basic questions and methods of Western intellectual traditions. We shall be concerned with such topics as the nature of human knowledge, the existence of God, the possibility of human freedom, and man's place in the universe. This course is not a comprehensive history of ideas, but a study of great works in their own context and in ours. Selections from *The Bible*, Sophocles, Plato, Aristotle, Epicurus, Anselm, Luther or Calvin, Montaigne and Descartes. Mr. Bates, Mr. Nuovo

[*HM 160 The Origins of Modern Thought: Science, Religion, Society]

[HM 305 Poetry, Values, and Commitment]

DIVISION OF NATURAL SCIENCES

NS 150 Environmental Science Fall

An interdisciplinary course, primarily for non-science majors, designed to explore the role of science in defining natural constraints on human use of the environment. After an introduction to the evolution of the biosphere, case studies provide a framework for understanding principles of physical, chemical, and biological processes, both in natural and altered environments. The major foci are water, food, other material resources, energy, and natural hazards. The stress is on scientific analysis and definition of particular situations, but some attention will be given economic, legal, and moral responses. Each student will prepare a paper that analyzes a selected example. Mr. Woodin, Staff

AMERICAN LITERATURE

Professors: Horace Beck, John McWilliams (Chairman) *Associate Professor:* Stephen Donadio *Instructor:* Gayle Pemberton

An American Literature major is expected to develop an understanding of major writers and literary movements as they have developed historically. The department emphasizes the study of American Literature as a means of understanding American culture.

Required for the major: fourteen courses for all majors including AL 201, 202 and 203; AL 450; four other term courses in the department, and the two seminars in the Senior Program. The remaining four courses may be fulfilled in one of two ways. Normally, majors will take two courses in American History (HI 203-204 especially recommended) and two courses in a non-American literature (EL 201 and EL 313 especially recommended). Students who wish to pursue a creative writing specialization, however, may take any four creative writing courses offered by the English department.

The Senior Program consists of a fall term Seminar (AL 704) a spring term Seminar (AL 705) and an oral general examination in May. The oral examination is based upon a list of readings required of all majors.

Honors Program: Departmental honors are awarded on the basis of a Senior Thesis. To qualify as a candidate for honors, one must have had an average of B or better for previous work in the department. In consultation with the faculty advisor and with department approval, the student will select a topic for independent investigation in the spring of the junior year. In the senior year, he or she will take AL 700 (Senior Research) in the spring term and in either the fall or winter term. Creative Writing theses will be supervised by the Creative Writing faculty.

An oral examination will be given on the thesis. The examination will be given by three faculty members, one of whom will ordinarily be from outside the department. Highest Honors will be granted for a grade of A, High Honors for a grade of A− and Honors for a grade of B+. For Honors in any of these categories the student must also have a final average of B for all course work in the department, and a B on the General Examination.

FRESHMAN WRITING PROGRAM

All Freshmen must elect one of the courses in the writing program: these include all courses in English at the 100 level (except EL 110, 111 and 112); American Literature 101; one section of Art 101; one section each of Classics 150 and 151; one section each of History 103 and 203; two sections of Theatre 106; and approved Winter Term writing courses when offered. These are courses designed to develop and improve the skills of written communication; they are taught in sections of limited enrollment, require frequent written assignments, and proceed through close correction of papers, class discussion of both particular and general problems of writing and, as necessary, individual conferences. Satisfactory completion of one of these courses is a graduation requirement. Freshmen wishing to satisfy this requirement by taking American Literature must register for AL 101.

***AL 101 The American Character in Literature** Fall, Spring

The course seeks to discover those character traits and cultural issues which have been considered distinctively American. Descriptive accounts of America will be compared to imaginative literature which portrays representative national characters. Among the issues to be especially considered are changing notions of America's mission, the influence of democratic ideals upon conduct, and the American as revealed in Europe. Readings include Tocqueville, Crevecoeur, Whitman, Twain, Lewis, Williams and Mailer. (AL 101

is a Foundations Course which also satisfies the Freshman Writing Requirement. It may be counted as an elective within the American Literature major.) Staff

AL 201 American Literature: 1620-1830 Fall

A study in the growth of American literature from the era of the Puritans through the era of early Romantic authors. We will emphasize the cultural significance of the best writings by the following authors: Bradford, Taylor, Edwards, Franklin, Jefferson, Irving, Cooper and Poe. Staff

AL 202 American Literature: 1830-1865 Fall, Spring

A study of the five authors who comprise the American Renaissance: Emerson, Thoreau, Hawthorne, Melville and Whitman. Staff

AL 203 American Literature: 1865-1940 Fall, Spring

A study of the major authors of the period, concentrating upon writers of the so-called Gilded Age (1865-1890) and of the 1920's: Twain, James, Dickinson, Stephen Crane, O'Neill, Frost, Eliot, Stevens, Hemingway, Fitzgerald, Faulkner. Staff

AL 204 Recent American Literature: 1940-Present Spring

A study of prominent, near-contemporary writers including, among others, Lowell, Roethke, Berryman, Mailer, Malamud, Bellow, Tennessee Williams, Arthur Miller and Edward Albee. Staff

AL 301 The American Novel Fall

The development of the American novel: the meaning and structure of the novels of the 19th century focusing on particular novels of Cooper, Hawthorne, Stowe, Melville, Twain, Howells, James, Norris, and Chopin. Mr. McWillims

AL 302 The American Novel Spring

An analysis of thematic and structural aspects in representative American novels of the 20th century with concentration on Dreiser, Dos Passos, Fitzgerald, Hemingway, Faulkner, Wright, West, and Bellow. Mr. Donadio

AL 303 The American Short Story Spring

A study of the development of short prose fiction in America from Edgar Allan Poe to the present. The history of the short story form, techniques, and changing point of view will be considered with regard to Hawthorne, O'Henry, James, Crane, Fitzgerald, O'Connor and others. Mr. Beck

AL 304 Modern American Poetry Fall

An introduction to the style and thought of Robinson, Frost, Stevens, Williams, Pound, Eliot, Crane, Roethke and Lowell. Ms. Pemberton

AL 401 Folklore and Mythology Fall

An analysis of the backgrounds of American folklore with emphasis on the material as it serves both to form our cultural heritage and to shape American literature. Mr. Beck

AL 402 Folk Life Spring

A study of the material culture of the American people as it has been preserved in the writings of Hawthorne, Emerson, Melville, Twain and John O'Hara, among others. Special attention will be given to writings which show the evolution of architecture, occupations and job methods. Mr. Beck

AL 440 Regionalism: The South Spring

A study of regional traditions in American literature. This year the course will concern the development of the literature of the American South, with particular concentration upon twentieth century fiction and the novels of William Faulkner. Ms. Pemberton

AL 450 Seminar in Major Authors: The James Family Spring

A study of two major closely related authors. Readings will concentrate on Henry and William James, but will include works by Henry James Sr. and Alice James. An evaluation of the thought, character and achievements of one of the nation's most remarkable families. (AL 201 and 202 or permission) Mr. Donadio

AL 500 Special Research

Open to individual qualified majors. (Permission) Staff

AL 700 Senior Research Fall, Winter, Spring

For Senior majors who are candidates for Departmental Honors. Staff

AL 704 Senior Seminar Fall

Intensive study of one topic or issue based upon selected readings from all periods of American literature. This year's topic will be the autobiographical mode. Mr. Donadio and Staff

AL 705 Seminar and General Examination Spring

Group discussion of selected works on the required reading list for majors. Collateral

reading of major works of American literary criticism. Mr. McWilliams and Staff

*Foundations course.

See also American Studies

See also Division of Humanities

See Division of Foreign Languages for list of courses taught in English.

PROGRAM IN AMERICAN STUDIES

This program offers students the possibilities of an interdisciplinary approach to the study of American culture as it variously manifests itself in events, in institutions, in the arts, in ideas, in values.

Students are expected to achieve a certain breadth and range by work in various departments (see Section I below). They are further expected to integrate and focus their work: first by advanced work in at least one discipline; and secondly, by work in the American Studies Seminars and in the Senior Thesis (see Sections II and III below).

Mr. McWilliams is the chairman of the American Studies Program. Students seeking information or advice concerning American Studies should consult him or any of the following advisors: Mr. Cox (History), Mr. Ferm (Religion), Mr. Haerle (Sociology/Anthropology), Mr. Nelson (Political Science), Mr. Craven (Economics), Mr. Andres (Art), and Mr. Wald (Philosophy).

Eighteen courses in the following three categories are required for the major: student majoring in American studies are not required to take a college concentration.

I. Courses required of all students (9)

1. **AL 101 The American Character *or***
   AL 201 American Literature (1620-1830)
2. **AL 202 The American Renaissance (1830-1865)**
3. **HI 203 United States History (1492-1861)**
4. **HI 204 United States History (1861-1977)**
5. **RE 220 The Shaping of American Religious Life**
6. **AR 207 American Art *or***
   AR 211 American Design
7. **PS 102 American Political Regime**
8. **PA 222 American Philosophy**
9. **SA 343 Community Studies *or***
   SA 354 Ethnic Groups *or*
   SA 390 Sociology of Women

II. Four related American courses chosen from the following list. Students are required to take at least three of these courses in a single department. These courses, in conjunction with those taken under Part I, will provide students with considerable experience in a single, traditional discipline.

American Literature

AL 203	**American Literature (1865-1940)**	Fall, Spring
AL 204	**Recent American Literature**	Spring
AL 301	**The American Novel: the Nineteenth Century**	Fall
AL 302	**The American Novel: the Twentieth Century**	Spring
AL 303	**American Short Story**	Spring
AL 304	**Modern American Poetry**	Fall
AL 401	**Folklore and Mythology**	Fall
AL 402	**Folklife**	Spring

Economics

EC 150	**Introductory Economics (Macro)**	Fall, Spring
EC 155	**Introductory Economics (Micro)**	Fall, Spring
EC 320	**The Corporation**	Spring
EC 360	Urban Economics	Fall
EC 365	**Environmental Economics**	Fall
EC 370	**Monetary Theory and Institutions**	Spring
EC 385	**Labor Economics**	Fall
EC 460	**Industrial Organization**	Fall

History

HI 303	**Era of the American Revolution**	Fall
HI 308	**American Intellectual History**	Spring
HI 309	**The Modern South**	Fall
HI 420	**Great American Historians**	Fall
HI 435	**Readings in American History, as offered**	

Political Science

PS 104	**Introduction to American Political Processes**	Fall
PS 203	**American Politics and Legislation**	Fall
PS 206	**Elections**	Spring
PS 304	**Public Policy**	Spring
PS 306	**American Constitutional Law: Individual Rights**	Fall

PS 307	**The American Presidency**	Fall
PS 204	**American Politics and Legislation**	Spring

Religion

RE 302	**Modern Views of God and Religious Life: the 20th Century**	Spring
RE 306	**The Puritan Tradition in America**	Fall
RE 308	**Seminar in American Religious History**	Spring

Sociology-Anthropology

SA 315	**Sociology of Education**	Spring
SA 316	**Sociology of Youth**	Spring
SA 321	**Native Peoples of North America**	Spring
SA 343	**American Community Studies**	Fall
SA 344	**Urban Sociology**	Fall
SA 345	**Work, Leisure and Sport**	Spring
SA 354	**Ethnic Groups in the United States**	Spring
SA 387	**Sociology of Law**	Spring
SA 388	**Crime and Deviance**	Fall
SA 390	**Sociology of Women**	Fall
SA 391	**Advanced Topics in the Sociology of Women**	Spring

III. Advanced Studies: All courses required. (5)

AS 400 Seminar in American Studies (Junior Year) Fall

An introduction to the theories and methods of American studies and their application to a particular theme or aspect of American culture. Staff

AS 401 Research Seminar (Junior Year) Spring

An introduction to the definition and exploration of research topics in American Studies. Discussions of readings covering a particular topic considered in AS 400 will lead to a research paper using both primary and secondary sources. Mr. Cox

N.B.: **AS 400 and AS 401** are of central importance to the American Studies Program, and neither waivers nor substitutes will normally be permitted. Students planning to be away from Middlebury during part or all of their junior year should take either or both of these seminars during their sophomore year.

AS 700 Senior Thesis Fall, Winter and Spring

For students who have completed AS 400 and AS 401 and who have thus qualified for the Senior Program. Under the guidance of one or more appropriate faculty members, each senior will do research leading toward a two-term, two-credit thesis of substantial length (80-100 pp.) on some related interdisciplinary aspects of American culture. The thesis is to be submitted no later than April 15. Staff

AS 704 Seminar in American Studies (Senior Year) Spring

Seniors will conduct a seminar discussion on subjects related to the ones they have addressed in their theses and as applied to readings assigned to the group. Staff

ART

Professors: Glenn Andres (chairman), Robert Reiff *Associate Professors:* David Bumbeck, John Hunisak *Assistant Professors:* Eric Nelson, Mark Rendleman *Instructor:* Christopher Wilson *Visiting Johnson Professors:* H.W. Janson (fall term), Sheila Hicks (winter term), Peter Kubelka (spring term)

Required for the major: In the belief that experience in both the practice and history of art constitutes the most rewarding program, the department requires both AR 101, Introduction to Art and Art History (*or* AR 102, Twentieth Century Painting and Sculpture), and AR 209, 210, Introduction to Design, of its beginning students. Satisfactory completion of these courses qualifies a student for the major.

Students may complete their requirement in either of two ways:

Art History Emphasis: Five additional courses of choice in art history, AR 400, and two terms of AR 700 (Senior work), normally fall and winter in order to write a senior thesis.

Studio Emphasis: Four additional studio courses and four additional courses in the history of art, plus senior work. Senior work may assume two forms. Either the student may elect three terms of AR 700 and carry out a sustained studio project in a single medium or the student may elect at least two studio courses beyond the six required of the major.

Honors: are awarded to students who do outstanding work in studio or art history. A senior thesis or a portfolio produced during

senior year must be presented by candidates for honors.

Teacher Training: Students interested in teacher training in art should consult with the chairmen of the Teacher Education Program and the Art Department.

***AR 101 An Introduction to Art and Art History** Fall

This course serves as an introduction to the study of Western painting, sculpture and architecture. Beginning with issues of media and style, the investigation will then proceed to questions of symbolism and meaning. After having gained sufficient factual and conceptual sophistication, students will be asked to consider the problem of value judgments, how they have been made in the past and are made in the present. Two lectures and one discussion per week. Mr. Hunisak and Staff

AR 102 Modern Art Spring

With a format identical to AR 101 (two lectures and one discussion per week), this course is offered on an introductory level and assumes no prior experience in art history. The art subjected to scrutiny will be limited to painting and sculpture created from the Impressionist revolution to the present.

Mr. Hunisak and Staff

AR 201 Art of the Italian Renaissance Fall

A selective survey of Italian Renaissance art and architecture, with an emphasis upon leading masters seen in their artistic, intellectual, and religious context. Mr. Wilson

AR 203 The Art of India Fall

A survey of Indian art and architecture from the ancient Indus Valley Civilization to Rajput miniature painting and the Taj Mahal, with excursions into Ceylon, Burma, to Angkor Wat in Cambodia and Borabadur in Java. No previous knowledge of Indian culture or history is required or expected.

Mr. Reiff

AR 204 The Art of China Spring

An historical and stylistic survey of painting, sculpture, ceramics, jades, architecture, and the bronzes. No previous knowledge of Chinese culture or history is expected of the student. Mr. Reiff

AR 205 Figure Drawing Fall

A studio course in the discipline of figure drawing. Working from the model, the student will make intensive study drawings concerning problems of proportion, distortion, scale, and motion. Limited to 30 students. (Permission) Mr. Bumbeck

AR 206 Figure Drawing Spring

A continuation of AR 205. Mr. Bumbeck

[AR 207 American Art] Offered in 1980-81.

[AR 208 The Art of Japan] Offered in 1980-81.

AR 209 Introduction to Design Fall

Study of two-dimensional organization of forms and space. Critical analysis of pictorial structure to provide a conceptual foundation of self-evaluation and for further work. Students are required to take AR 210 to receive credit for AR 209. This course is required for all Art majors. Three sections limited to 25 students each.

Mr. Rendleman, Mr. Nelson

AR 210 Introduction to Design Spring

A continuation of AR 209, with an introduction to color theory and three-dimensional work. Three sections limited to 25 students each. Mr. Rendleman, Mr. Nelson

AR 211 American Design Spring

A history of architecture and the minor arts in America from its colonization through the mid-twentieth century. Mr. Andres

AR 213 Kouros to Concept: Issues in the History of Sculpture from Antiquity to the Present Fall

From Archaic Greek *Kouros* figures (standing, male-nude statues) to the most recent developments in conceptual art ("sculpture" only by default and for lack of a better media designation), sculpture has served as a dynamic counterpart to painting and architecture. At certain historical moments, sculpture dominated Western art; at other times, its vitality seemed exhausted or its practice was suppressed. This course will examine the art of sculpture both as an independent art form with unique technical and conceptual problems and as part of the broader dynamics of artistic and cultural history. (AR 101)

Mr. Hunisak

AR 214 East and West Fall

The cross-fertilization of East and West,

from Alexander the Great to Mao Tze-Tung. Contacts and mutual influences between Western Civilization and the high cultures of Asia — India, China, and Japan — have existed for thousandsof years. The course investigates this exchange of ideas in art, religion, literature, philosophy, science, technology, and economics, with due attention to the vital role of Islamic civilization as the mediator between East and West. Mr. Janson

AR 215 Early Medieval Art Fall

A survey of European art and architecture, from the fall of Rome to the mid-twelfth century. Among the topics to be discussed are: Irish sculpture and metalwork; the development of the illuminated manuscript; the rise of western monasticism; and the great pilgrimage churches of Romanesque art.
Mr. Wilson

AR 216 Gothic Art and Architecture Spring

A survey of Gothic art and architecture in Europe and England from 1140 to 1500, with special attention to the great French cathedrals of Chartres, Bourges, Notre Dame, Reims, and Amiens. In addition to examining the structural principals of Gothic architecture, we will also discuss the development of Gothic sculpture and iconography. Other topics to be considered are the design and origin of stained glass windows, illuminated manuscripts, and late medieval tapestries.
Mr. Wilson

AR 240 A History of Cinema Spring

The aim of this course is to prove the achievement of cinema. Lectures will be illustrated by a substantial number of examples which cover the whole range of film history, but will not give a chronological view of the history of cinema. The examples will be used to show how cinema has expanded the dmension and range of human expression beyond the capacity of any other medium. This course will demonstrate the individual impact of cinema on those who view it and the way in which that impact's effect is unique.

It is recommended that those interested in cinema at Middlebury College should take *both* courses since many of the theoretical points made in AR 340 *Essence of Cinema* will be made clearer by the examples shown in *A History of Cinema*. The significance of the films shown in *History* will be better understood if supported by the theoretical framework given in *Essence*. Mr. Kubelka

[AR 301 Modern Architecture] Offered 1980-81.

[AR 302 Baroque Art: Painting, Sculpture and Architecture of Seventeenth Century Rome] Offered 1980-81.

[AR 303 Northern European Painting]

AR 304 The Art of Northern Europe: the Baroque Spring

A survey of the golden age of Dutch and Flemish painting. In the social and historical context of 17th century northern Europe, the work of such major figures as Rembrandt, Rubens, Vermeer, Hals, DeHooch, and Ruisdael will be considered. Mr. Wilson

AR 305 Painting and Sculpture of 19th Century Europe Fall

Painting and sculpture, just before the French Revolution, Neo-Classicism, the Romantic movement, Realism, and Impressionism in France with excursions into England, Germany, Russia and Scandinavia. The art of David, Goya, Delacroix, Ingres, Courbet, Manet, Monet, Rodin, and Degas are given special attention. Mr. Reiff

AR 307 The Art of the City Fall

A study of man's most complex and critical physical monument. The city (historical and "ideal") will be surveyed from antiquity to the present in an investigation of its changing purposes, elements, and organization.
Mr. Andres

AR 308 Late Modern Art Spring

This course concentrates on the Abstract Expressionism period in America and what follows it: Pop, Op and kinectic art, minimalism, post-painterly abstraction, conceptualism, and the new Realism. It will not be merely a survey of events as rather a consideration of concepts and philosophies, of significant trends and developments, stylistic analysis, and critical response. (Permission.)
Mr. Reiff

AR 309 Painting Fall

Painting with the emphasis on structuring of pictorial space in representational and non-representational or abstract conceptions. Use of new and traditional media. Limited to 15 students. (AR 209-210 or permission.)

Mr. Rendleman

AR 310 Painting Spring

A continuation of AR 309.

Mr. Rendleman

[AR 311 Ancient Art]

AR 315 Printmaking Fall

Studio instruction in traditional and contemporary methods of intaglio and relief printmaking. Critical emphasis on the union of the printmaking craft with problems of drawing, painting and design. Limited to 20 students. (AR 209, 210 or permission.)

Mr. Bumbeck

AR 316 Printmaking Spring

A continuation of AR 315. Mr. Bumbeck

[AR 317 Photography]

AR 319 Sculpture Fall

An introduction to sculpture. A variety of experiences in various media and diverse problems of design will be stressed. (AR 209, 210 or permission.) No previous experience in sculpture is expected. Mr. Nelson

AR 320 Sculpture Spring

A continuation of AR 319. Students will pursue ideas with greater concentration in a specific area or conversely explore totally new sculptural experiences. Mr. Nelson

AR 340 The Essence of Cinema Spring

Through an analysis of Peter Kubelka's complete work this course will attempt to define the essential qualities which make cinema an original art form. Cinema is not just a reproductive or composite medium but a new art form, equal to the classic arts of painting, music, architecture, etc. Cinema has opened new possibilities for the formalization of human thought which no other medium has yet permitted. Special emphasis will be put on those properties of the cinematographic medium which do not overlap with other media and are unique. It should be emphasized that this is not a course dealing with a general approach to the idea of cinema as art, but rather a specific analysis of Mr. Kubelka's work as one unique style/form within the larger context of the cinematic medium. Mr. Kubelka

AR 400 Seminar in Methodology and Criticism Spring

The course will expose the advanced student in art history to various facets of methodology (in research and criticism) utilized in dealing with the visual arts, tapping the special expertise of various members of the Art Department to present as wide a range of problems and approaches as possible. Students will be given an opportunity to test these approaches by working with objects from the College collection. Required will be a sequence of exercises and the compilation of a hypothetical mini-exhibition (complete with catalogue raisonnée) from College holdings. (Departmental juniors and permission.)

Mr. Andres and Staff

AR 401 Seminar in Modern Art Spring

This year's topic will be the art of Edouard Manet (1832-83). Although previous artists had incorporated the imagery of modern life into their art, Manet was the first to create a comparable stylistic means to convey that imagery. What has never been completely resolved is the complex issue of determining what content, or meaning, results from Manet's new synthesis of style and imagery. This question will dominate our investigation. (A reading knowledge of French would be helpful. Permission.) Mr. Hunisak

AR 403 Seminar in Modern Architecture: Architecture After the Masters Fall

An investigation of recent architectural trends beginning with the climactic work of Wright, Gropius, Mies, and Le Corbusier and following the developments and reactions which it inspired. The seminar will draw heavily on contemporary architectural theory and criticism in an attempt to achieve an historical overview of the period since World War II. (Permission.) Mr. Andres

[AR 405 Seminar in Baroque Art]

AR 406 Seminar in Renaissance Art: Donatello and His Time Fall

Donatello was not only the greatest sculptor of the fifteenth century and, with

Brunelleschi and Masaccio, one of the Founding Fathers of Early Renaissance art; he is also the first artist whose career is documented almost year by year from 1403 until his death in 1468. The seminar will study the development of his art in detail, including his relation to the art of antiquity and his influence on his contemporaries. Written and oral reports will be required. (AR 201, Permission. Preference will be given to students with a reading knowledge of Latin, Italian, German or French.) Mr. Janson

AR 500 Advanced Studies in the Visual Arts

Supervised independent work in art history or studio. Staff

AR 700 Senior Independent Study Staff

*Foundations Course.

See also Division of Humanities.

For other film courses, see TH 117, TH 340 and FR 350.

BIOLOGY

Professors: Duncan McDonald, George Saul, Christopher Watters (chairman), Howard Woodin *Assistant Professor:* C. Randall Landgren *Instructors:* Dwight Baker, Thomas Root *Lecturer:* Steven Young, Adjunct Professor *Assistants:* Wayne Scott, H. Peter Wimmer

The department of Biology offers courses in a broad spectrum of areas, ranging from life processes at the molecular and cellular levels to the interrelationships of whole organisms and their environments. The major program is designed to enable liberal arts students to understand the biological world and man's role in it, as well as to prepare students for graduate and professional schools. The department is well equipped to offer laboratory study and student research opportunities in many areas. In addition, the geographical location of Middlebury College, with thousands of acres nearby owned by the College or within the Green Mountain National Forest, provides excellent outdoor laboratory for ecological studies.

Each student majoring in Biology plans a program of courses in close consultation with a departmental adviser. Combined with the emphasis in the major program on electives, this procedure allows a student maximum flexibility in designing a program of study while providing the guidance necessary to avoid mistakes that might hamper a future career.

For students who entered Middlebury prior to Fall, 1977, the major program includes BI 110, 9 other Biology courses and 3 cognate courses chosen from the departments of Chemistry, Physics or Mathematics. A maximum of 2 courses from CH 241, CH 242, CH 421 and CH 422 can be included among the Biology courses required for the major if they are not also used as cognates.

For students who entered between the fall semester, 1977 and the fall semester, 1979, the major program includes BI 110, 8 other Biology courses and 4 cognate courses in Chemistry (excluding CH 110), Physics (excluding PH 101, 145 and 155) or Mathematics. PY 301 may also be taken for cognate credit. At least 6 Biology electives must be chosen from the BI 190 to 490 sequence; the remaining 2 may also include units of independent study (BI 500 or 600) and designated winter term offerings. Courses in departments other than those designated may be acceptable for cognate credit, with the *prior* approval of the adviser and the department.

For students who enter the fall semester, 1979, and thereafter, the major program includes BI 125, BI 250, 7 other Biology courses and 4 cognate courses in Chemistry (excluding CH 110), Physics (excluding Ph 101, 145 and 155) or Mathematics. Ph 301 may also be taken for cognate credit. At least 5 Biology electives must be chosen from the BI 190 to 490 sequence; the remaining 2 may also include units of independent study (BI 500 or 600) and designated winter term offerings. Courses in departments other than those designated may be acceptable for cognate credit, with the *prior* approval of the adviser and the department.

For good and sufficient reason a student may take courses at another institution towards fulfillment of the major requirements. Normally, such courses should be approved by the department well in advance of the student's registration. A maximum of 3 Biology courses taken off-campus may be credited toward completion of the major.

Separate joint majors with Chemistry and Psychology have been developed to enable students to study aspects of both fields without taking all the courses prescribed for a separate

major in either. The department also participates in the interdisciplinary Environmental Studies major and Northern Studies major. Special major programs involving Biology and other fields can be arranged to suit individual needs.

Students planning careers that require graduate or professional school training involving biology should be familiar with the subject matter included in CH 101, CH 241, and CH 242; MA 112; and PH 109, and PH 110, in addition to their biology program. Some medical graduate schools expect additional courses in mathematics and chemistry. Students who anticipate applying to graduate or professional school programs will be urged by their advisers to include apropriate courses in their program.

The department admits a limited number of graduate students as candidates for the Degree of Master of Science in Biology. The requirements of this program include research, a thesis, an oral examination and some assisting in undergraduate laboratories.

Courses designated with the symbol † may be taken without laboratory under the following conditions: (1) The stated prerequisites for the course must be met. (2) Students majoring in Biology or jointly in Biology and other subjects may not count such courses toward the fulfillment of the major.

Required for a Major, prior to fall, 1977: BI 110; 9 elective courses within the Biology department or accepted for the major by the department; 3 cognates chosen from Chemistry, Mathematics, and Physics. Courses with optional laboratories must be taken with laboratory to fulfill the Biology and cognate requirements. *Recommended:* see list above, advised as preparation for graduate and professional schools.

Required for a Major, fall, 1977 to fall, 1979: BI 110; 8 elective Biology courses, of which 6 must be chosen from the BI 190 to 490 sequence; 4 cognates chosen from Chemistry, Physics or Mathematics and PY 301. Courses with optional laboratories must be taken with laboratory to fulfill the Biology and cognate requirements. *Recommended:* see list above, advised as preparation for graduate and professional schools.

Required for a Major, fall, 1979, and thereafter: BI 125 and BI 250; 7 elective Biology courses, of which 5 must be chosen from the BI 190 to 490 sequence; 4 cognates chosen from Chemistry, Physics or Mathematics and Py 301. Courses with optional laboratories must be taken with laboratories to fulfill the Biology and cognate requirements. *Recommended:* see list above, advised as preparation for graduate and professional schools.

Required for a Joint Major in Biology and Psychology: see description under Psychology. *Required for a Joint Major in Biology and Chemistry:* see description under Chemistry. *Required for an Environmental Studies — Biology Major:* 5 upperclass Biology courses including BI 190 and BI 311, 6 cognates from Chemistry, Geology, Mathematics or Physics, 5 cognates from pertinent non-science disciplines including Geography, a knowledge of a modern foreign language and two senior-thesis courses in Biology.

Honors Program: students should apply during spring term of junior year. Honors are awarded on the basis of an Advanced Study (BI 500) project of superior quality and of at least two terms in duration, a seminar presentation and an oral defense of the thesis.

Proficiency Examination: students are urged to take the biology proficiency examination before starting BI 125. Those who pass the examination are excused from the BI 125 requirement for the major (and joint majors including Biology), and have satisfied all BI 125 prerequisites for more advanced courses. They must still take BI 250 and 8 other courses within the department (or acceptable to it), and the required cognates, to major in Biology. Students interested in this option should consult with the departmental chairman.

BI 125 Introduction to Biological Principles Fall

Emphasis on an integrated understanding of the biology of organisms, specifically the human species. Topics to be discussed include: relations of organisms to their environment; levels of organization from molecules to populations; cellular and species continuity (genetics and evolution); human genetics; and animal and human behavior. Laboratories will both supplement and complement lectures and will include seminar discussions on such topics as human behavior. Students with advanced high school preparation in biology may find it advantageous to bypass this course and elect others in biology for which this course is prerequisite. Those wishing to avail themselves of this option should take the biology AP examination or the departmental proficiency examination which is given during the fall or winter term freshman orientation program. 3 hours lect., 3 hours lab. Mr. McDonald

BI 190 General Ecology

Basic ecological principles and concepts pertaining to and governing the interrelationships among organisms, and between organisms and the physical environment. Effect of abiotic environmental parameters and biotic phenomena such as territoriality, aggression, communication, predation and parasitism on energy flow, nutrient cycling and populations. Problems of environmental modification by the human species. Inherent ability of natural populations to expand and to control their own and other population sizes. (BI 110 or 125 or permission.) 3 hours. lect., 3 hrs. lab. Mr. Woodin

[BI 201 Invertebrate Biology]

†BI 203 Botany

An introduction to the structure, function, development, identification and ecology of selected algae, fungi, mosses, ferns, and other vascular plants. The emphasis of the course will be on the vascular plants. Their structure and function, and to a lesser extent their interactions with the environment and other organisms, will be stressed. The laboratory will be descriptive and experimental. It will include field work on and off campus. A plant collection and a detailed notebook of all laboratory work will also be included. (BI 110 or 125 or permission) 3 hrs. lect., 4 hrs. lab. Mr. Landgren

†BI 205 Developmental Biology Spring

An introduction to animal embryology, with emphasis on the mechanisms underlying such phenomena as fertilization, cleavage, gastrulation and morphogenesis. In the latter part of the course the genetic and molecular basis of such classical concepts as differentiation and determination will be examined. Non-embryological, developmental topics such as metamorphosis, regeneration and aging will also be discussed. Laboratory work will be devoted to the developmental anatomy of selected vertebrates and to the experimental processes. (BI 110 or 125 or permission.) 3 hrs. lect., 4 hrs. lab. Mr. Watters

†BI 220 Comparative Chordate Morphology Fall

An examination of the structure and basic biology of the chordates, tracing evolutionary changes in morphology from early chordates through mammals. Most anatomical systems (e.g. skin, skeletal, muscular, urogenital, and nervous systems) are derived from basic cell types, and provide similar functions for all animals, yet exhibit a remarkable degree of variation among species due to unique biological needs and heritages. The focus of this course will be on understanding these homologous systems. The laboratories will provide considerable practical experience with preserved and living specimens, and along with other readings will be an integral part of lecture discussions. (BI 110 or 125 or permission.) 3 hrs. lect., 3 hrs. lab. Mr. Root

BI 225 Topics in Human Genetics Spring

Lectures on methods of analyzing family histories, the effects of changes in structure and number of chromosomes, effects of inbreeding, twin analysis, gene frequencies, concepts of race, "inherited diseases," immunogenetics, oncogenic viruses, use of cell cultures. Laboratory work will alternate with discussion and problem-solving sessions. (BI 110 or 125) 3 hrs. lect., 3 hrs. lab or disc. Mr. Saul

BI 250 Organelles and Cells: an Introduction to Concepts and Methodology Spring

The biology of cells and their internal compartments or organelles, with emphasis on deriving modern concepts and understanding the methodological basis of such concepts. Topics to be discussed include: the membrane basis of compartmentalization and transport; nucleic acids and their roles in replication and protein synthesis; an introduction to enzyme kinetics and intermediary metabolism; the structure, function and differentiation of such specialized cells as muscle and nerve. Laboratory work will stress experimentation and interpretation of biological data. Not open to students who have taken BI 110. (BI 125 or equivalent preparation; CH 101 as corequisite.) 3 hrs. lect., 3 hrs. lab. Mr. Saul, Mr. Watters

[†BI 267 The Biology of Insects and Related Anthropods]

BI 303 Plant Physiology Spring

A study of the life processes of higher plants. The emphasis is on the unifying principles of plant biology, including translocation, mineral nutrition, photosynthetic pathways, secondary metabolism and the influences of external and internal factors on plant growth and development. In the laboratory, work will be done in the areas of water relations, light responses, growth, hor-

monal regulation, and tissue culture. A formal interpretation of data and report will be required in each of these areas. (BI 203, and Ch 101 or BI 250, or permission) 3 hrs. lect., approx. 4 hrs. lab. Mr. Landgren

BI 305 Microbial Biology Fall

An introduction to microorganisms with emphasis on the prokaryotes. Beginning with a general discussion of the evolutionary, physiological, and genetic differences between pro- and eukaryotes, the course proceeds through an in-depth examination of bacterial activity: fermentation, anaerobic and aerobic respiration, chemotaxis, autotrophy, and nitrogen fixation. Through a survey of important prokaryotic groups, the role of bacteria in disease, environmental culture methodology and experimental approaches to bacterial physiology and genetics; the lab culminates in a project dealing with enrichment, isolation, and identification of selected microorganisms from natural sources. (BI 101 and CH 101, or BI 250) 3 hrs. lect., 4 hrs. lab in 2 sessions. Staff

BI 311 Ecosystem Analysis Fall

Theory and practical field methods of analyzing the components of nutrient cycling and energy flow in ecosystems. Interrelationships between biotic and abiotic processes that control the complete ecosystem. Emphasis placed on energy flow and the hydrologic subsystem as a carrier of cycling materials. Semester-length library research paper required. Laboratory consists of intensive weekend field studies of entire, unspoiled, drainage basin as a sample ecosystem followed by indoor analysis of collected data. (BI 190) 3 hrs. lect., 3 hrs. lab. Mr. Woodin

BI 314 Molecular Genetics Fall

Topics for lectures and reading include the structure and transmission of chromosomes; nucleic acids and control of protein synthesis; the regulation of gene activity; and recombination in prokaryotes and eukaryotes. Attention will be given to special topics of current interest, such as oncogenic viruses and genetic engineering. Laboratory study is designed to introduce some organisms and techniques used in research, and includes training in analyzing and reporting data. (BI 110 or BI 250.) 3 hrs. lect., 3 hrs. lab. Mr. Saul

BI 316 Animal Behavior Spring

A review of recent topics in animal behavior in light of natural selection. Both vertebrates and invertebrates will be discussed. The adaptive significance of behavior, from the neural to the ecological level, will be stressed. Weekly laboratories will include experimental investigations, field trips, and films. (BI 110 or BI 125 or permission.) 3 hrs. lect., 3 hrs. lab. Mr. McDonald

BI 320 Comparative Animal Physiology Spring

The study of function at the organ/organismal level, stressing general principles and adaptation to the environment. A wide range of invertebrate and vertebrate animals will be surveyed to examine the different approaches to essentially similar physiological problems (e.g. respiration, metabolism, circulation, water and ionic balance, temperature, sensation and movement). Also studied will be unique adaptations, and relationships to extreme or unusual environments (e.g. desert, high-altitude, diving animals, air breathing fish, etc.). The laboratories will utilize a range of techniques and equipment to examine selected problems, with the emphasis on design, application and analysis of experiments. This course may *not* be elected by students who have taken BI 210 or BI 211. (BI 110 and CH 101 or BI 250 or permission) 3 hrs. lect., 3 hrs. lab. Mr. Root

BI 350 Topics in Cellular Biology Fall

Emphasis on the integrative organization of cellular structure and function, especially with respect to the acquisition, transformation, and utilization of energy. A critical and experimental approach to the study of cellular phenomena will be stressed and in part will involve physical and chemical concepts and methods. Laboratory experiments are designed to implement this approach and to introduce students to current methodology. (BI 110 or BI 250, CH 241.) 3 hrs. lect., 4 hrs. lab. Mr. Watters

BI 401 Advanced Genetics Fall

An examination of selected topics of current interest, including readings from journals and symposia. Past topics have included the molecular genetics of early development, extranuclear inheritance, immunogenetics, and regulation of gene activity. At least one critical paper will be required. (BI 314 and permission) Mr. Saul and Staff

[BI 405 Behavioral Ecology and Sociobiology]

[BI 408 Advanced Topics in Cellular Biology] Spring

BI 415 Advanced Topics in Plant Biology Spring

A seminar covering historically important and recent work in plant cell structure and metabolism. Topics covered will include analysis and preparation of electron micrographs and studies on the structure and function of plastids and cell walls. The structure and function of other organelles (vacuole, dictyosome, microsomes, etc.) may be studied as determined by the orientation of the seminar group.(CH 101, BI 203 or permission.)

Mr. Landgren

BI 500 Advanced Study

Fall, Winter, Spring

A project involving laboratory and/or field research or extensive library study on a topic chosen by the student and a faculty adviser. For Biology majors. (Permission.) Staff

BI 750 Senior Work (Environmental Studies) Fall, Winter, Spring

Independent Study - Senior Thesis

Independent Study, normally involving a laboratory or field research project for any two of the three senior terms. Required of Environmental Studies majors specializing in ecology. Not open to Biology Majors. Staff

BI 900 Research and Thesis

Fall, Winter, Spring

Required for all Candidates for the Master's degree.

*Foundations course.

See also Division of Natural Sciences.

See also Program in Environmental Studies.

See also Northern Studies.

CHEMISTRY

Professors: Robert Gleason, Grant Harnest, Edwin Pool, E. Kirk Roberts (chairman)
Assistant Professor: David Bennett (on leave)
Visiting Instructor: Maggie O'Brien-Grube (spring term)

The basic program required of all Chemistry majors provides a firm foundation in the fundamental principles of the discipline. Each student builds on this foundation by electing those advanced courses that best meet individual special interests and career objectives which might include secondary-school teaching, a position in industry, or study for an advanced degree in graduate or professional school. Although non-majors may take any laboratory course without the laboratory, courses constituting a part of a major in chemistry must be taken with laboratory. The Department of Chemistry is accredited by the American Chemical Society and students taking the appropriate electives may be certified by the Society.

Required for a Major: CH 101†, CH 131, CH 211, CH 241, CH 242, CH 351 plus four elective courses in the department; MA 112, MA 113, PH 109 and PH 110. Two or three units of independent study may be included in the four required chemistry electives. Students with a professional interest in chemistry are encouraged to elect CH 341, CH 352, CH 431, CH 452, two course credits of independent study, MA 201, MA 202 and GN 101, GN 102 or RU 101, RU 102.

Joint Major in Biology and Chemistry: Required for a major: Biology: BI 110, and four electives in Biology; Chemistry: CH 101†, CH 131, CH 211, CH 241, CH 242, CH 351, MA 112, MA 113, PH 109, PH 110 and three additional electives from Biology, Chemistry, Mathematics or Physics.

A deposit fee to cover cost of broken apparatus is charged in each laboratory course. Bills will be mailed after the second week in each term.

†CH 101 is the normal introductory course in chemistry. However, many students qualify for permission to omit CH 101 and begin studies in Chemistry with CH 211 or CH 131, or CH 241. Consult the Chairman of the Department.

CH 101 Fundamentals of Chemistry

Fall, Spring

Fundamental principles of chemistry. Atomic theory and atomic structure, chemical bonds, stoichiometry, kinetic theory and the states of matter. Problem drill, conferences. Laboratory work deals with the testing of theories by various quantitive methods. Students with adequate secondary-school preparation are encouraged to consult the Department for permission to elect CH 211, CH 131, or CH 241 in place of this course. 3 hrs. lect., 4 hrs. lab. Breakage fee.

Mr. Gleason, Mr. Roberts

CH 107 Same as CH 101 but without the laboratory.

***CH 110 Chemistry—the Formative Years 1800-1915** Spring

This course will examine, in a fashion free of mathematics beyond elementary algebra, the development of a number of ideas that were central to the growth of chemistry during the nineteenth and first part of the twentieth centuries. Topics to be considered include the atomic theory, the kinetic theory of gases, the laws of thermodynamics and their specific relevance to environmental problems and the development of the Bohr model of the atom. Our objective in the course is to provide the student with an appreciation of creativity in science and how much of a legacy we have in the work of those who have preceded us. (Closed to students who have taken CH 101 or any more advanced chemistry course.)

Mr. Gleason

CH 131 Systematic Inorganic Chemistry Fall, Spring

A systematic study of the elements and their compounds based on the Periodic Table. The isolation of the elements from their natural sources, and the synthesis of some important types of inorganic compounds. The properties of selected elements and their compounds are discussed in class and/or studied in the laboratory using various analytical methods. (CH 101 or permission.) 3 hrs. lect., 3 hrs. lab. Breakage fee.

Ms. O'Brien-Grube, Mr. Pool

CH 137 Same as CH 131 but without the laboratory.

CH 211 Analytical Chemistry I Spring

Extensive treatment of mass action theory (ionic equilibrium) concerned mainly with ionization of strong and weak electrolytes, buffers, hydrolysis, solubility of difficultly soluble substances, complex formation, oxidation-reduction systems, and quantitative measurements involving these phenomena. Laboratory work is mainly titrimetric analysis with some gravimetric methods. (CH 101 or permission.) 3 hrs. lect., 6 hrs. lab. Breakage fee. Mr. Pool

CH 217 Same as CH 211 but without the laboratory.

CH 241, CH 242 Organic Chemistry I and II Fall, Spring

An introduction to the study of the compounds, both aliphatic and aromatic, of carbon. The approach is based on the properties of functional groups with emphasis on electronic theory and reaction mechanisms. Laboratory exercises involving synthesis of organic compounds, analysis of various classes of compounds, and identification of unknowns complement the lecture material. (CH 101 or permission; CH 241 must precede CI 242.) 3 hrs. lect., 6 hrs. lab. Breakage fee.

Mr. Gleason, Mr. Harnest, Staff

CH 247, CH 248 Same as CH 241, CH 242 but without the laboratory.

CH 322 Experimental Biochemistry Spring

An introduction to the study of modern biochemistry and biomolecules through intensive experience in the laboratory, pre- and post-laboratory discussion among the student group and instructors, and written exercises. Students will study a broad range of biomolecules, many obtained from whole organisms and tissues, using current instrumentation and methodology. Discussions and written exercises will extend the experimental results to provide a framework for the understanding of biochemical information in the technological world and for further study in chemistry or biology. (CH 242: BI 101 is recommended) 6 hrs. lab., 1½ hrs. discussion. Breakage fee. Staff

CH 341 Organic Chemistry III Fall

Fundamental organic chemistry beyond monofunctional compounds; heterocyclic and polyfunctional species, orbital symmetry. The main focus of the laboratory will be identification of organic compounds with heavy reliance on modern instrumentation, particularly infrared and nuclear magnetic resonance spectroscopy. Experience will be gained in handling mixtures as well as single compounds, but identification requirements will be tailored not to exceed the specified six hours of laboratory work. (CH 242.) 3 hrs. lect., 6 hrs. lab. Breakage fee. Mr. Gleason

CH 347 Same as CH 341 but without the laboratory.

CH 351 Physical Chemistry I Fall

A study of the properties of gases, liquids, and solutions. The laws of thermodynamics are developed and applied to simple chemical systems and to chemical equilibrium. Chemical kinetics is treated empirically with

consideration given to the order and molecularity of reactions and the effect of temperature. (MA 113, PH 109, plus 2 term courses in chemistry.) 3 hrs. lect., 4 hrs. lab. Breakage fee. Mr. Roberts

CH 357 Same as CH 351 but without the laboratory.

CH 352 Physical Chemistry II
A continuation of CH 351. Further applications of thermodynamics to chemistry by use of chemical potential. The phase rule. Electrochemistry. Elements of statistical thermodynamics are applied to ideal gases. Theories of chemical kinetics. (CH 211, CH 351.) 3 hrs. lect., 4 hrs. lab. Breakage fee.

CH 358 Same as CH 352 but without the laboratory.

CH 421 Biochemistry Fall
An in-depth study of the structure and function of macro-molecules. The physical and chemical properties of proteins, enzymes, and nucleic acids are studied. Topics include: techniques of isolating and determining the physical properties of proteins, the biological function of enzymes and enzyme kinetics, and a physical description of the function and behavior of nucleic acids. (CH 242, CH 351, or permission; BI 110 is recommended.) 3 hrs. lect. Staff

CH 422 Biochemistry Spring
A study of intermediary metabolism and energetics of biological systems. Anabolic and catabolic pathways of carbohydrate, amino acid, lipid, and nucleic acid metabolism and models for oxidative phosphorylation are studied. Molecular control, cellular localization, energetics, and mechanism are emphasized. (CH 242 (248), CH 351 or permission; BI 110 is recommended.) 3 hrs. lect. Staff

CH 431 Advanced Inorganic Chemistry Fall
Atomic structure; molecular structure by valence bond and molecular orbital treatment: transition metal complexes according to valence bond, molecular orbital, crystal field, and ligand field theories. Relations of atomic and molecular structure to chemical and physical properties. Other topics such as crystal chemistry, acid-base theories, solvent systems, and nuclear chemistry. (CH 131 and four additional courses in Chemistry.) 3 hrs. lect. Mr. Pool

[CH 442 Advanced Organic Chemistry]

[CH 443 Advanced Organic Chemistry]

[CH 452 Physical Chemistry III]

CH 500 Independent Study Project Fall, Spring
Individual study for qualified students. Permission. Breakage fee. Staff

CH 700 Senior Work Fall, Winter, Spring
Senior majors may register for two or three course equivalents. The student plans and carries out a laboratory research project generally related to current faculty research interests. This work is normally culminated by the writing of a senior thesis. Staff

*Foundations Course.

See also Division of Natural Sciences.

See also Program of Environmental Studies.

CHINESE

Assistant Professor: John Berninghausen
Lecturer: Gregory Chiang

The Chinese Program offers a structured sequence of instruction in fundamental language skills leading to competency in modern Chinese (Mandarin). Considerable attention is given to familiarizing the student with the rich cultural heritage of China's very long history which is implicitly and explicitly transmitted and embodied by the native language of one billion people.

Besides those courses which train the student in speaking, aural comprehension, reading and writing, a few other courses designed to introduce Chinese literature through English translations are available to any interested student (e.g., CS 225, FL 220, FL 251).

It is possible for students to take Chinese language courses as part of a joint major with another discipline; it is likewise possible for students to elect to major in East Asian Studies under the inter-disciplinary East Asian Studies Program described in this catalog.

CS 101 Beginning Chinese Fall
An introduction to Mandarin (the official modern language of China, also known as

guoyu or putonghua.) The course begins with phonetics, romanization, Chinese characters and simple vocabulary items. Sentence patterns and other fundamentals of speaking, reading and writing will be taught along with the simplified characters in use on the Chinese mainland. Written exercises, drill sessions, quizzes and tape recordings will accompany each lesson. Students will have an active knowledge of 600 Chinese characters and more than 1000 by the end of CS 102. Additional drill hours to be arranged.
Mr. Berninghausen and Staff

CS 102/WT Beginning Chinese Winter
(CS 101.)

CS 102 Beginning Chinese Spring
A continuation of the first term's work with accelerated introduction of vocabulary, grammar, sentence patterns designed to facilitate speaking and reading. (CS 102/WT.) Mr. Berninghausen and Staff

CS 201 Intermediate Chinese Fall
This course is designed to enable the student to converse in everyday Chinese and to read simple texts in Chinese (both standard and simplified characters). Discussion of assigned readings will be conducted primarily in Chinese and familiarity with the vocabulary and grammar introduced in CS 101 and 102 is assumed. Grammatical explanation, written exercises, dictation quizzes, sentence patterns, oral drill and tapes will accompany the assignments from the two main texts: *Twenty Lectures in Chinese Culture* and *Chinese Reader (I & II)*. At the end of the course CS 202, students will be able to read and write approximately 1600 characters. Additional drill hours to be arranged. Mr. Berninghausen, Mr. Chiang

CS 202 Intermediate Chinese Spring
A continuation of the first term's work, with the class conducted primarily in Chinese. TEXT: *Hanyn Duben, Twenty Lectures on Chinese Culture,* and audio-visual materials. (CS 201.) Mr. Berninghausen, Mr. Chiang

[CS 225 Chinese Poetry in Translation] Offered in 1980-81

CS 301 Advanced Chinese (Modern Chinese) Fall
This course aims at further development of overall language proficiency through extensive reading of selected texts representing a wide variety of styles and genres. Classes will be conducted entirely in Chinese except for occasional use of English by the instructor to provide a quick solution to problems of definition. The main text will be *Xiandai Huawen Duben* (Intermediate Reader in modern Chinese) by Harriet C. Mills with supplementary readings from modern literature, newspapers, magazines and other documents. (CS 202 or equivalent.) Mr. Chiang

CS 302 Advanced Chinese (Modern Chinese) Spring
A continuation of the first term's work with greater emphasis placed on reading works of a literary nature. (CS 301 or equivalent.)
Mr. Chiang

CS 401 Advanced Readings Seminar in Chinese Intellectual and Political History 1839-1919 (in Chinese) Fall
This course is designed for students who have completed CS 302 or its equivalent and will serve to increase the student's language skills, written and spoken, while presenting an overview of the forces that shaped modern China as they have been conceived and articulated by major Chinese political and literary writers. Mr. Chiang

See also Division of Foreign Languages: FL 220, FL 251 and Interdisciplinary Major in East Asian Studies.

CLASSICAL STUDIES PROGRAM

The Classical Studies Program is a course of study designed to offer a broad, rigorous general education based on the careful study of fundamental Classical works. This study is in its nature an interdisciplinary one, since the fundamental Classical works are works of history, philosophy and literature and are written in Greek and Latin. The interdisciplinary nature of the study is reflected in this Program by a teaching staff which includes faculty in the departments of Classics, Philosophy, Political Science, English, American Literature, Religion, and Art.

The Classical Studies Program aims to cultivate historical perspective, theoretical rigor, literary sensitivity and taste, and linguistic expertise; and it aims to acquaint students intimately, through the cultivation of these capacities, with the fundamental and

enduring works which have informed the culture of the West.

Required for the major in Classical Studies:

1. **CL 150 The Ancient Epic**
2. ***PS 101 Introduction to Political Science**
3. 2 courses in Classical Poetry, only one of which may be at the 100 level, and
   4 courses in Classical Poetry, of which i) only one may be at the 100 level, and ii) one must be at the 400 level (seminar), ,
   or
   4 courses in Classical Poetry, of which i) only one way to be at the 100 level, and ii) on must be at the 400 level (seminar), and 2 courses in Classical Philosophy, only one of which may be at the 100 level.
4. 4 courses in Greek or 4 courses in Latin
5. **CL 700 (Senior Essay)**

Except for students planning to do the Senior Essay in Roman studies, at least 5 courses must be taken with faculty outside the Classics Department.

Normally, students will be advised to take several cognate courses in a field related to the field of their Senior Essay (e.g. philosophy, political science, history and relgion, literature). These cognate courses will not count towards the major, but may be applied to the student's concentration.

I. Classical Poetry

1. CL 151	**Masterpieces of Roman Literature**	Adler
2. CL 100	**Introduction to Classical Studies**	Harris
3. HI 201	**Roman History: The Republic**	Heibges
4. HI 202	**Roman History: The Empire**	Heibges
5. EL 213	**The Rise of the West: Athens in the 5th Cent.**	Littlefield
6. [CL 212	**Classical Biography]**	
7. [EL 227	**Greek Drama]**	
8. [AL 300	**Classical Background of American Literature]**	
9. [AR 311	**Ancient Art]**	
10. [CL 320	**Sociology of the Ancient World]**	
11. [CL 420	**Seminar in Classical Literature]**	
12. [CL 421	**Seminar in Classical Rhetoric and Poetic]**	

II. Classical Philosophy

1. *RE 110	**Introduction to Western Religion**	Rockefeller
2. *CL 121	**Classical Tradition of the Liberal Arts**	Adler
3. PA 220	**Greek Science**	Harris
4. [PA 247	**Ancient Greek Philosophy]**	
5. PS 317	**Classical Political Philosophy**	Nelson
6. PA 401	**Seminar in Classical Philosophy]**	
7. PS 401	**Seminar in Political Philosophy]**	
8. PS 409	**Seminar in Political Philosophy**	Nelson

III. Greek and Latin

1. CL 101	**Elementary Latin**	Adler, Staff
2. CL 202	**Intermediate Latin**	Adler, Staff
3. CL 103	**Elementary Greek**	Adler, Staff
4. CL 204	**Intermediate Greek**	Adler, Staff
5. CL 301	**Roman Poetry**	Staff
6. CL 302	**Roman Prose**	Staff
7. CL 303	**Greek Poetry**	Staff
8. CL 304	**Greek Prose**	Staff
9. CL 550	**Advanced Reading in Greek or Latin**	Staff

IV. Senior Essay (CL 700)

The Senior Essay is a culminating project which should demonstrate the student's ability to synthesize the poetic, philosophic and linguistic skills cultivated in the Program. The Senior Essay will normally concentrate in the area — poetry or philosophy — in which the student has elected the 4-course sequence, and it will require the student to work with some Classical text(s) in the original language. As noted above, students will normally be advised to take several cognate courses in a field related to the field of their Senior Essay (e.g. philosophy, political science, religion, history, literature).

CLASSICS

Associate Professors: William Harris (on leave fall term), Ursula Heibges *Assistant Professor:* Eve Adler (chairwoman)

The Classics department's core of courses in English offers a broad introduction to the study of Classical culture, with special emphasis on the close interdependence between

the Classical Studies and the various arts and sciences. Intensive introductory courses in Greek and Latin prepare students rapidly for reading in the Classical languages; advanced courses in Latin and Greek are devoted to the close study of literary, philosophic and historical texts.

Required for the major in Classics: 10 courses in Greek and Latin (normally 6 in one language and 4 in the other); one course in Classical history chosen with department approval; one course chosen from RE 110, PA 247 and PS 317; one course in Classical literature in translation, chosen with department approval; Senior Essay.

COURSES IN ENGLISH

CL 100 Introduction to Classical Studies Spring

A survey of the Classical world and of the several disciplines which constitute the Classical studies: history, geography, ethnology, archaeology, art history; evidence for the economic and social structure of the ancient world; the transmission of Classical texts. Mr. Harris

***CL 121 The Classical Tradition of the Liberal Arts and Sciences** Fall

A study of major literary and philosophic works which address themselves to the essential and enduring problems of liberal education. The reading will be organized both historically and by topics: Socrates and Athens; rhetoric and Rome; pagans and Christians, ancients and moderns. Works by Plato, Aristophanes, Xenophon, Cicero, Quintilian, Augustine, Bacon, Vico.

Ms. Adler

CL 150 The Ancient Epic: Heroes, Mock Heroes, Anti-Heroes Spring

An intensive study, in English, of a select group of ancient epics. Major concerns will be tragic, comic and burlesque versions of the heroic enterprise; oral and literary poetic traditions; approaches to the problem of reading ancient texts in translation. Readings will include the Mesopotamian *Epic of Gilgamesh;* Homer's *Iliad* and *Odyssey; The Battle of the Frogs and Mice;* Lucretius' *The Nature of Things;* Vergil's *Aeneid.* (One section of this course, limited to 12 students, will serve to fulfill the freshman writing requirement.) Ms. Adler

CL 151 Masterpieces of Roman Literature Fall

Intensive study, in English, of selected major works of Roman literature in the Republican and Imperial ages, with attention to their Greek roots and European branches. Readings from Lucretius, Cicero, Vergil, Horace, Ovid, Seneca, Petronius, Juvenal, Tacitus. (One section of this course, limited to 12 students, will serve to fulfill the freshman writing requirement.) Ms. Adler

[CL 212 Classical Biography] Offered in 1980-81

CL 220 Introduction to Greek Science Spring

A course in English for Humanities and Science students which follows the thread of Greek science, a much neglected area, from the beginnings through the third century A.D. It will include medicine, geometry, the beginnings in algebra, and applied science along with technology.

Mr. Harris

[CL 320 Sociology of the Ancient World.]

[CL 420 Seminar in Classical Literature]

[CL 421 Classical Rhetoric and Poetic]

COURSES IN GREEK AND LATIN

CL 101 Intensive Beginning Latin Winter

An introductory course designed chiefly for the needs of students of English and European languages and literatures, philosophy and history. Emphasis on secure mastery of grammar, building vocabulary, practice in sight-reading, familiarity with the history of Roman literature and of Latin as an international European language. Ms. Adler

CL 202 Intermediate Latin Spring

A continuation of CL 101, based on intensive reading from authentic texts. Emphasis on reading comprehension, consolidation of grammar and vocabulary, mastery of several poetic meters, elementary matters of genre and style, critical use of translations. Readings slected from Cicero, lyric poetry, Vergil, Ovid, Augustine. (CL 151 or examination.)

Ms. Adler

CL 103 Elementary Greek Fall
An intensive beginning course which progresses rapidly through the rudiments of the language by means of lecture, drill, and close study of selected prose and verse passages from Classical Greek authors. Meets five hours/week. Ms. Adler

CL 204 Intermediate Greek Spring
A continuation of CL 103. Completion of the rudiments of Greek grammar and syntax, with emphasis on reading comprehension. The course is based on an intensive close reading project, such as a dialogue of Plato, supplemented by sight reading in other authors. (CL 103 or examination.) Ms. Adler

CL 301 Roman Poetry Fall
Selected works of Roman poetry. For fall 1979, the course will concentrate on a comedy of Plautus and the *Odes* of Horace.
Ms. Heibges

CL 302 Roman Prose Spring
Selected works of Roman prose: Cicero, Seneca, Tacitus, Livy, Petronius, Apuleius.
Staff

CL 303 Greek Poetry Fall
Selected works of Roman poetry. For fall 1979, the course will concentrate on Sophocles' *Oedipus Rex*. Ms. Heibges

CL 304 Greek Prose Spring
Selected works of Greek prose: Plato, Aristotle, Xenophon, Herodotus, Thucydides, Plutarch. Staff

CL 550 Advanced Reading in Latin and Greek Staff

CL 705 Senior Essay Staff

PROGRAM IN EAST ASIAN STUDIES

The East Asian major is designed for those students who wish to undertake an interdisciplinary approach to this region of great historical and contemporary importance. The term "East Asia" refers to China, Japan and Korea, and the program's intellectual integrity stem from the fact that all parts of the region have been formed, to one degree or another, under the powerful stimulus of high Chinese culture. The course of study required by this program is grounded in at least three years of Chinese or Japanese language studies and includes courses to be taken in several different departments which will explore connections among the art and literature, history, intellectual heritage, social organization and cultural values of East Asian peoples.

Requirements for an East Asian Studies Major: In consultation with the Program Coordinator, each student majoring in East Asian Studies will take certain required courses which seek to provide an integrative introduction to the cultural origins of East Asia in combination with other courses leading to a solid grounding in modern East Asian societies (see Section I of both Alternatives A and B as outlined below).

The East Asian Studies major will be expected to acquire basic language proficiency, oral and written, in either modern Chinese or Japanese*. (See Section II of both Alternatives A and B below.) Besides providing the student with the ability to converse in an East Asian language, this language proficiency is necessary to enable the major to utilize some primary sources in Chinese or Japanese in the writing of the Senior Thesis. Coursework in spoken and written Chinese may be taken at Middlebury during the regular academic year, in the Middlebury summer intensive program and with the approval of the Program Coordinator and Senior Thesis adviser some language study at the 300 level (third year) or above may be taken at any of several language training centers in East Asia (see Alternative B).

By the beginning of the junior year, each student who had declared the intention of majoring in East Asian Studies must select a faculty member participating in this program as her or his Senior Thesis adviser. This adviser and the Program Coordinator will discuss the student's proposed course of study and may urge the student to take a few courses outside of the major which they deem necessary methodological preparation for the writing of the Senior Thesis. Before the end of

*At present, Japanese language courses are not offered during the regular academic year. However, coursework in spoken and written Japanese leading to sufficient proficiency in that language may be taken during the summer at the Middlebury summer intensive program and with the permission of the Chairman of the Program and the Senior Thesis adviser at an approved language training program in Japan.

the major's junior year, a carefully prepared proposal for the Senior Thesis must be submitted by the student to the Senior Thesis adviser with a copy to the Program Coordinator.

As this interdisciplinary major requires at least four courses in each of two different divisions, it is not necessary for the East Asian Studies major to do a concentration.

Alternative A

Section I. Each East Asian Studies major electing this option (Alternative A) will take a total of eight courses from no fewer than four disciplines (i.e., four different departments*). Other courses may, with the permission of the Program Coordinator, count towards the major.

Four courses required of all majors:

HI 207 Imperial China
HI 331 Modern East Asia, 1750-1912
SA 335 Chinese Society and Culture

Plus *one* of the following three:

PS 210 Politics of Development
PS 319 East Asian Political Systems
HI 424 Communism in China

PLUS

Five other courses to be selected by the student (with at least two courses in Art, Literature or Religion to be included) from the following:

AR 204 The Art of China
AR 208 The Art of Japan
***CS 225 Chinese Poetry in Translation**
***CS 401 Advanced Reading Seminar**
***FL 220 Modern Asian Fiction in Translation**
HI 332 Modern East Asia, 1912-1976
HI 424 Communism in China
PS 210 The Politics of Development
PS 319 East Asian Political Systems
RE 210 The Buddhist Tradition

*FL 220, CS 225 and CS 401 will be considered as belonging to one discipline (the Chinese Program) and may be counted as covering only one of the four disciplines required.

Section II. A total of six regular semester courses in Chinese language instruction plus one winter term course between CS 101 and CS 102 will normally be required of the East Asian studies major.

Chinese Language Courses

CS 101-102 Beginning Chinese Fall, Winter, Spring
CS 201-202 Intermediate Chinese Fall, Spring
CS 301-302 Advanced Chinese Fall, Spring

Any student majoring in this program is required to complete a minimum of four semesters of Chinese language (or Japanese language) instruction — CS 101-102, 201 and 202 (or JA 101-102, 201 and 202) *prior* to the start of the senior year. It is, however, strongly recommended that the full six semesters of Chinese (or Japanese) up to and including CS 302 or JA 302 be completed by the junior year if at all possible.

Section III. Each student majoring in East Asian Studies must write a Senior Thesis under an adviser or advisers to be selected in consultation with the East Asian Studies Program Coordinator no later than the beginning of the junior year. (It is advisable for the potential major to consult with the Program Coordinator during the sophomore year.) Three copies of the thesis are to be submitted no later than the final day of classes in the winter term.

EA 700 Senior Thesis Fall, Winter

Alternative B

Section I. Each East Asian Studies major electing this option (Alternative B) will take a total of six courses from no fewer than four disciplines (i.e., four different departments*). Other courses may, with permission of the Program Coordinator, count towards the major.

Two courses required of all majors under this option:

HI 207 Imperial China
SA 335 Chinese Society and Culture

PLUS

Four other courses to be selected by the student (with at least one course in Art, Literature or Religion to be included) from the following:

AR 204 The Art of China
AR 208 The Art of Japan
***CS 225 Chinese Poetry in Translation**
***CS 401 Advanced Readings Seminar**
***FL 220 Modern Asian Fiction in Translation**
HI 331 Modern East Asia (1750-1912)
HI 332 Modern East Asia (1912-1976)

HI 424 Communism in China
PS 210 The Politics of Development
PS 319 East Asian Political Systems
RE 210 The Buddhist Tradition

*FL 220, CS 225 and CS 401 will be considered as belonging to one discipline (the Chinese Program) and may be counted as only one of the four disciplines required.

Section II. The East Asian major who has chosen Alternative B will complete a total of five regular credits plus one winter term credit in the Chinese language training program (listed below) preparatory to direct cultural experience and intensive language training in an approved structured program in Taiwan, Singapore, Hong Kong, or the People's Republic of China. The overseas language and cultural course work should earn either 4 or 5 credits depending upon whether the student goes for the spring term or winter term plus spring term (probably during the junior year). Study in Japan of the Japanese language (at the 300 level) is a possible alternative and would, if approved, require the student to complete JA 202 prior to taking a semester plus winter term intensive language study in Japan (probably during the junior year) and to follow the same other requirements outlined in Alternative B.

Chinese Language Courses

CS 101-102/WT-102 Beginning Chinese Fall, Winter, Spring
CS 201-202 Intermediate Chinese Fall, Spring
CS 301 Advanced Chinese Fall
CS 302 plus other language credits earned in East Asia.

Section III. Each student majoring in East Asian Studies must write a Senior Thesis under an adviser or advisers to be selected in consultation with the East Asian Studies Program Coordinator no later than the beginning of the junior year. (It is advisable for the potential major to consult with the Program Coordinator during the sophomore year.) Three copies of the thesis are to be submitted no later than the final day of classes in the winter term.

EA 700 Senior Thesis Fall, Winter

The following members of the faculty will act as advisers:

Mr. Berninghausen: Program Coordinator (Chinese Language and Literature)
Mr. Clifford (History)
Mr. Eckel (Religion)
Mr. McGough (Sociology-Anthropology)
Mr. Reiff (Art)
Mr. Rosenberg (Political Science)
Mr. Wheeler (Political Science)

ECONOMICS

Professors: John Craven, David Smith, Klaus Wolff *Associate Professors:* Michael Claudon (chairman), Richard Cornwall *Assistant Professor:* Paul Sommers *Instructor:* Juergen Fleck

The Economics major consists of an introductory theory sequence (EC 150 & EC 155), a quantitative sequence (EC 210 & EC 211), an intermediate theory sequence (EC 350 & EC 355) and at least four electives, two of which must be at the "400" level. Majors should complete MA 112 (Mathematical Analysis I) early in their programs since it is a prerequisite for EC 210 and EC 355. The introductory, quantitative and intermediate sequences should be completed by the end of the fall term, junior year.

Seniors interested in earning Honors in Economics will enroll in Senior Research for Honors (EC 700) taken in the fall, winter and spring. To enroll in EC 700, students must have completed the three sequences by the beginning of the fall term, senior year, and must have earned at least a B average in Economics courses.

Persons considering graduate programs in Economics are urged to complete the three sequences plus EC 410 and either MA 318 (Selected Topics in Operations Research) or MA 315 (Mathematical Models in the Social, Life and Management Sciences). Aspirants to graduate study in business should complete the three sequences plus EC 315 and EC 320. Law school candidates should take EC 315.

Because of the widespread use of computers in graduate programs and in business, we advise our majors to become familiar with computer programming by enrolling in MA 123 (Computer Programming I).

EC 150 Introductory Economics (Macro) Fall, Spring

An introduction to the analysis of such macroeconomic problems as inflation; employment levels; the role of money, taxation and spending; and resource use and conservation. Staff

EC 152 Toward Economic Literacy Fall

Various topics in micro and macro analysis selected to help demonstrate how economists address current problems on the national and international level (inflation, unemployment, balance of payments, for example) as well as the industry or firm level (agriculture, railroads, aerospace, for example). This course is an alternative to the much more thorough EC 150, 155 combination and is designed for juniors and seniors too deeply engaged with their respective majors to take more than one course in Economics. Credit will not be given to students who have taken EC 150 or 155.

Mr. Wolff

EC 155 Introductory Economics (Micro) Fall, Spring

An introduction to the analysis of such microeconomic problems as price formation (the forces behind demand and supply); market structures, from competitive to oligopolistic; the distribution of income; and public policy options bearing on these problems.

Staff

EC 210 Economic Statistics Fall, Spring

Basic methods and concepts of statistical inference with an emphasis on economic applications. Topics include probability distributions, random variables, estimation and hypothesis testing including contingency table analysis. A weekly one hour lab at the computer center is part of this course in addition to three hours of class meetings per week. (MA 112.)

Mr. Cornwall, Mr. Sommers

EC 211 Economic Statistics: Introduction to Regression Analysis Spring

Introduction to the theory of finding a relation between one dependent variable and several independent variables. Topics include hypothesis testing, transformation of variables, dummy variables, serial correlation and confidence intervals for prediction. Critical analysis of examples of regression analysis as well as a project requiring regression are important parts of the study. A weekly two hour lab at the computer center is a required component of this course. (EC 210.)

Mr. Cornwall

EC 230 The Industrial Revolution and Its Antecedents Fall

An analytical examination of the decisive turning point in the economic development of the western world, probing *inter alia* the roles of science, capital, population growth and enterprise.

Mr. Wolff

EC 315 Accounting Fall, Spring

A study of the accounting procedures used by proprietorships and corporations, with maximum attention to theoretical considerations involved. (This course is best deferred until senior year by students seeking graduate school in business or law.)

Mr. Smith

EC 320 The Corporation Spring

A study of the economic and social roles played by the corporation; a study of the use of accounting data in corporate decision making; and a study of the human productivity aspects involved in the corporation. (EC 150, EC 155 and EC 315.)

Mr. Smith

EC 330 The Economics of Development Spring

An analysis of history, theory, and competing contemporary policies for the economic development of the so-called "less developed countries." (EC 150 and EC 155 or permission.)

Mr. Wolff

[EC 335 Comparative Economic Systems] Offered in 1980-81.

EC 350 Macroeconomic Theory Fall

Macroeconomic theory provides a framework in which the major forces affecting the overall performance of the economy can be isolated and their influence on aggregate activity analyzed. Its goal is to provide a basis for prediction and control of such economic aggregates as the level of employment and unemployment, the general price level, and the level and rate of growth of national income and product. (EC 150 and EC 155.)

Mr. Fleck

EC 355 Microeconomic Theory Spring

Microeconomic theory concentrates on the behavior of the household (the consumer) and the firm (the producer). The former underlies the theory of demand and the latter underlies the theory of supply. Together the theories of supply and demand help illumine contemporary economic problems (gasoline rationing, sex discrimination in the labor market, the food stamp program, cartelized industries, for example). (MA 112 and EC 155.)

Mr. Sommers

EC 360 Urban Economics and the Economics of Urban Problems Fall

Consideration of such topics as the location of economic activity; trends in U.S. urban structure; urban transportation, housing, and finance; planned cities; and metropolitan governments. (EC 155.) Mr. Fleck

EC 365 Environmental Economics Fall

An examination of the problems which must be resolved as society considers the costs of preserving or improving its environment versus the benefits from such expenditures. (EC 150 and EC 155 or permission.)

Mr. Smith

EC 370 Monetary Theory and Institutions Spring

A two part course focusing on the U.S. financial system. The first part of the course examines the role and productivity of money, the institutional structure of U.S. financial markets, and the organization of the Federal Reserve System. Part two examines the major alternative views of financial-real sector interaction (Monetarist, neo-Keynesian, Portfolio Balance, etc.), their empirical formulation for forecasting, and problems of monetary policy implementation. (EC 150 and EC 155.) Mr. Fleck

[EC 380 Radical Economics] Offered in 1980-81.

EC 385 Labor Economics Spring

A study of the economics of manpower and the labor market; the role of unions; labor legislation. (EC 150 and EC 155.)

Mr. Craven

[EC 410 Econometrics] Offered in 1980-81.

EC 420 Mathematical Models in Macroeconomics Fall

This course is concerned with the theory, construction and application of mathematical models of macroeconomic behavior. We begin our study with simple static Keynesian models and gradually work up to more complicated models including dynamic systems of simultaneous equations. Computer simulation models are used to work out in a dynamic context the implications of various changes in fiscal and monetary policy. No knowledge of computer programming is required and there is no advantage in knowing programming. (MA 112 and EC 350.) Mr. Sommers

[EC 430 Inequality and Poverty] Offered in 1980-81.

EC 435 The Labor Managed Economy Spring

A study of an economic system where workers democratically control firms and where labor hires capital. This theory is developed to provide insights into capitalism as well as this alternative. The actual experience of Yugoslavia and of firms in this country will be examined. (EC 350 and EC 355.) Offered in alternate years.

Mr. Cornwall

EC 440 The Economics of International Trade Fall

A study of the economic basis of trade among nations, its composition, and impact on domestic economics. (EC 210 and EC 355.)

Mr. Claudon

EC 445 International Finance Spring

An analysis of the monetary aspects of international economics with attention being given to balance of payments and currency valuation theory and policy formation, and to macroeconomics of open economies within current and past institutional frameworks. (EC 350.) Mr. Claudon

[EC 450 History of Economic Thought]

EC 460 Industrial Organization Fall

The structure and performance of American industry are examined in the light of economic theory. Public policies toward business are reviewed and evaluated. (EC 355.) Mr. Craven

[EC 470 Public Finance] Offered in 1980-81

EC 500 Individual Special Projects Fall, Spring

(Permission. See Handbook.) Staff

EC 700 Senior Research for Honors Fall

(Permission.) Staff

See also Division of Social Sciences.

See also Program in Environmental Studies.

ENGLISH

Professors: Paul Cubeta, Robert Hill (on leave fall term), David Littlefield, Edward Martin,

Robert Pack, Henry Prickitt (chairman) *Associate Professor:* David Price *Assistant Professors:* John Bertolini, John Elder, Raymond Carney, Thomas Gavin, Elizabeth Mansfield, Thomas Moisan *Visiting Assistant Professor:* Elizabeth Napier (fall term)

Because of the varied nature of the department's offerings, courses are differentiated by their second and third digits in the following manner.

Literature (00-19) (Dramatic Literature (20-39) Writing (60-79)

FRESHMAN WRITING PROGRAM

All freshmen must elect one of the courses in the writing program. See complete description under "American Literature." Freshmen who have completed the Writing Program requirement may, in their freshman year, elect a second, different EL 100 level course, space permitting.

EL 101 Narrative Fiction Fall, Spring

Short stories and novels from various nineteenth and twentieth century British and American writers. Selections vary from year to year. Papers will emphasize close attention to texts, on the understanding that ability to read well and thoroughly is a necessity for competent self-expression. Staff

EL 103 Lyric and Narrative Poetry Fall, Spring

Close analysis of selected poems both traditional and modern. Among the variety of poets considered will be Shakespeare, Spenser, Donne, Milton, Marvell, Pope, Wordsworth, Keats, Arnold, Emily Dickinson, Yeats, T.S. Eliot, Stevens, and Frost. This course is strongly recommended for those students who think they may be English or American Literature majors. With its attention to a variety of poetic styles throughout English and American verse, the course is partly designed as introductory to the 200 level courses in both disciplines.

Mr. Carney, Mr. Pack (Fall)
Mr. Littlefield (Spring)

EL 105 Drama Fall, Spring

Masterpieces of comic drama by such playwrights as Aristophanes, Shakespeare, Moliere, and Shaw will be analyzed in terms of the psychology of farce, the nature of comic form, and the dramatic techniques of comedy so that, through class discussions and papers, new ways of enjoying and understanding the wit and wisdom of the comic vision may be discovered. Film versions and recordings of several of the plays will be used.

Mr. Bertolini, Mr. Moisan

EL 107 The Essay Spring

This course will teach the art of expository prose writing with attention to voice, stance, strategies of argumentation and the convincing use of evidence. Working from essays of major, modern prose stylists, analyzing and criticizing their arguments and strategies, the course will concentrate on developing the individual student's control of argumentation and integrity of personal style. Staff

Admission to EL 170 and EL 175 below is by permission. Students should submit a written request to the department prior to registration. Previous accomplishment is not a requirement for admission to the course: we are looking for commitment to writing as an activity.

EL 170 Prose Fiction I Fall, Spring

The course has two areas of activity: (1) the close analysis in discussions and written assignments of short stories by writers in the modern tradition, and (2) analysis and discussion of imaginative and critical writings by students in the course. (Permission. See above.) Mr. Gavin, Mrs. Mansfield

EL 175 Poetry I Fall, Spring

Each student will write at least one poem a week, exploring a variety of poetic forms. The class will examine closely and critically poems written by students and published poets, when possible tracing development of published poems through drafts. (Permission. See above.)

Mr. Price (Fall); Mr. Gavin (Spring)

MAJOR PROGRAM

Required for a Major in English are (1) Interpretation of Literature: an Historical Approach (EL 201-202); (2) Distribution Courses: five courses in literature, one chosen from each of the following groups: A) EL 302, 404; B) EL 224, 303, 304; C) EL 206, 305, 306; D) EL 207, 313, 314, AL 301; E) EL 208, 212, TH 326, AL 302, AL 404; (3) Shakespeare (EL 321 or 322); (4) the Senior Program.

The Senior Program in English includes an extended written project (an Essay or Honors

Thesis) and the General Examination. The Senior Essay is a one-term project; the Honors Thesis is a two-term project. Normally, essays and theses are critical studies of some aspect of an author's work, but students who have taken EL 460 may petition to undertake a creative writing project to satisfy the requirement. Each senior is assigned to a faculty member for guidance on the essay or honors thesis. The General Examination receives one course-credit. The examination will be based on a General Reading List. Departmental honors will be awarded on the basis of course grades, the General Examination and the Senior Essay or Honors Thesis.

LITERATURE

***EL 110 Continental Fiction** Spring

A study of major novels and some shorter works by 19th and 20th century European authors, including Flaubert, Zola, Tolstoy, Dostoevsky, Mann, Kafka, Sartre, and Camus. In their range and sweep, these works of fiction trace the main lines of development of narrative form in modern Western art. They are triumphs of achievement and innovation aesthetically and conceptually; they give a felt sense of significant and significantly different levels of society, culture, and periods of history; and between them they dramatically enact or embody most of the central preoccupations of Western man, his great dilemmas as well as his great ideas.

Mr. Price

***EL 111 European Drama: Renaissance to Modern** Fall

An introductory survey of the development of European dramaturgy from the rebirth of classical comedy in Renaissance Italy (Machiavelli and Ruzzante), through the Spanish Golden Age (Lope and Calderon), French Neo-Classicism (Corneille, Moliere, Racine, Beaumarchais), German Romanticism (Goethe, Schiller, Kleist), and the transition to Modern Drama (Zola, Ibsen, Shaw). European dramatists have consistently dealt with the great conflicts of western civilization—the private individual *vs.* the public, illusion *vs.* reality, lust *vs.* marriage—and in doing so have always sought new dramaturgic strategies to deal with their changing perceptions of the individual's place in the world: this course will concern itself with the embodiment of these themes in dramatic form.

Mr. Bertolini

***EL 112 Mythologies Timeless and Timely, Traditional and Contemporary** Spring

Analytic and comparative study of some of the basic stories, symbols, and archetype which formed and continue to enliven the imaginative life of 20th century western culture, including, among others, Homer's *Odyssey,* Sophocles' *Oedipus,* Lucretius' *The Nature of Things,* Ovid's *Metamorphoses,* selections from the Old and New Testaments, the works of Sigmund Freud and Carl Jung, and concluding with Stanley Kubrick's film *2001: A Space Odyssey.* Mr. Littlefield

The EL 201-202 sequence introduces students in some depth to writers whose works are regarded as central to the English poetic tradition as it has developed from the Middle Ages to the Modern period.

EL 201 Interpretation of Literature: Chaucer, Shakespeare, Milton Fall

In this course students will study selections from both Chaucer's *Canterbury Tales* and Shakespeare's plays and Milton's *Paradise Lost* in its entirety. (Open to sophomores, to junior and senior English or American Literature majors, and to other juniors and seniors, space permitting.)

EL 202 Interpretation of Literature: Pope, Wordsworth, the later 19th and 20th Century Spring

In this course students will read selections of the major poems by Donne, Pope, Wordsworth, Tennyson, and Yeats. (EL 201 or permission.) Staff

[EL 206 The Early Novel] Offered in 1980-81.

EL 207 Nineteenth Century Fiction Fall

Analysis of form and theme in representative English novels of the 19th century. Novelists to be read include Austen, Dickens, Thackeray, the Brontës, Eliot, Hardy, and James. Mr. Gavin

EL 208 The Twentieth-Century English Novel Fall, Spring

The course will focus on the novelists of the modern period: Conrad, Joyce, Lawrence, Forster, and Woolf. Background readings from such figures as Bergson, Freud, and

William James will help define the intellectual context within which these novelists worked.
Ms. Mansfield (Fall), Mr. Elder (Spring)

[EL 211 Classics of Literature: Greece] Offered in 1980-1981

EL 212 Modern British Poetry Spring
Through careful analysis of the style and thought of representative poems this course will examine the work of the following poets: Hardy, Hopkins, Yeats, Auden, Thomas, Larkin, and Hughes. The theme of the making to the choosing of the *self* (Yeats: "Myself I must remake.") will be emphasized.
Mr. Pack

EL 213 The Origins of Western History: Athens in the 5th Century B.C. Fall
A study of our first deliberate historians: Herodotus, Thucydides, and Xenophon and the problems of history and historiography they introduce. The emphasis will be on primary texts (in translation) and ancillary readings in Aristophanes, Plato, and Plutarch.
Mr. Littlefield

EL 302 Medieval Literature Spring
This course will introduce students to some major works and major impulses in the literature of the Middle Ages. Taking as its foci the medieval forms of epic and romance, the course will study works such as *Beowulf, Sir Gawain and The Green Knight,* Dante's *Divine Comedy,* Chaucer's *Troilus and Cryseide,* Mallory's *Morte d'Arthur,* and Boccaccio's *Decameron.* In addition some time will be spent on Old and Middle English lyrics. The aim of the course will be to illuminate the ways in which these works exemplify the medieval views of the world and of art. (Although the mode of instruction will depend upon the size of the enrollment, a certain degree of lecturing might be necessary to acquaint the students with some of the conventions on which these works draw.)
Mr. Moisan

EL 303 English Literature of the Sixteenth Century Spring
The major achievements—lyric, narrative and dramatic—of the English Renaissance by such authors as More, Sidney, Spenser, Marlowe, Shakespeare and Jonson. Some attention will be paid to analogous literary achievements on the continent. Mr. Bertolini

[EL 304 English Literature of the Seventeenth Century] Offered in 1980-81

EL 305 Poetry and Prose of the English Augustan Age Fall
A critical investigation of the artistic achievement of major writers from 1660-1745, conducted primarily in terms of their evaluation of the political, religious, social, moral, intellectual and aesthetic activities of the times. Figures studied are Dryden, Addison and Steele, Swift, Pope and Gay.
Mr. Prickitt

[EL 306 Poetry of the Age of Johnson] Offered in 1980-81

EL 313 English Romanticism Fall
Primary attention will be given to poetry and prose selected from the six major English Romantic poets: Blake, Coleridge, Wordsworth, Keats, Shelley and Byron.
Mr. Elder

EL 314 Victorian Poetry Spring
This course will be centered on selections from the three major Victorian Poets: Tennyson, Browning and Arnold. The approach is thematic and lectures will be organized around such major concerns as the poet as alien figure, materialistic determinism, the effects of the "new" science, the role of women, "the myth of Evolution," attitudes about war, the "Pathetic Fallacy," etc. Students will be encouraged to read judiciously and widely in other major Victorian prose writers such as Carlyle, Mill, Ruskin, Swinburne and Hardy.
Mr. Hill

EL 315 Literary Criticism Spring
What does language do to us? How does literature work? How is a text produced? Where does the context end and the text begin? Is a literary text essentially different from a scientific text, a psychological text? an historical text? This course will examine the writings of contemporary philosophers, critics, and historians to explore how literature functions. We will begin by developing a general historical and theoretical background to the methods of contemporary literary criticism and semiotics (the science of human sign systems). The remainder of the course will be devoted to looking at some of the excitingly different ways contemporary critics have found to talk about four major writers.
Mr. Carney

HI 318 English History as a Background for English Literature (See description under History) Mr. Tillinghast

All English Department Seminars are permission courses. The student must obtian the approval of the English department prior to registration.

EL 401 Seminar: John Milton Fall

A study of the major poetry: "L'Allegro" and "Il Penseroso," *Comus,* "Lycidas," *Samson Agonistes, Paradise Lost,* and *Paradise Regained;* and selected prose: "On Education," *The Doctrine and Discipline of Divorce, Areopagetica,* and selections from the political tracts. Attention will be directed to the social, religious, and political aspects of Milton's work as well as his literary achievement. Mr. Littlefield

EL 403 Seminar: William Wordsworth and Wallace Stevens Spring

"Our destiny, our being's heart and home,
Is with infinitude."—Wordsworth

"And shall the earth
Seem all of paradise
that we shall know?"—Stevens

Selected poems by Wordsworth and Stevens will be studied in the context of themes of desire and fulfillment. Mr. Pack

EL 404 Seminar: Geoffrey Chaucer Fall

Reading and discussion of selections from the *Canterbury Tales,* and the *Troilus and Criseyde,* with reference to intellectual background and developments in Gothic style through the 14th century. Mr. Martin

EL 406 Seminar: James Joyce Fall

The evolution of Joyce's literary style and moral vision will be considered through a study of *Dubliners, A Portrait of the Artist as a Young Man,* and *Ulysses.* Mr. Price

EL 407 Seminar: William Butler Yeats Spring

Extensive reading in most of Yeats' works with intensive study of selected poetry. Works to be read or read in outside the required reading of all the poetry will include: *The Autobiography, The Collected Plays, A Vision, Mythologies, Irish Fairy and Folk Tales* (ed. Yeats), *Ideas of Good and Evil, Discoveries, Per Amica Silentia Lunae, The Cutting of an Agate.* Mr. Hill

EL 413 Seminar: Charles Dickens Spring

This course will study the development of Dickens as a novelist through a close reading of six major works: *Martin Chuzzlewit, Dombey and Son, David Copperfield, Bleak House, Hard Times,* and *Great Expectations.* Attention will be paid simultaneously to Dickens' role as a spokesman for and critic of Victorian society. Mr. Prickitt, Mr. Moisan

DRAMATIC LITERATURE

[EL 224 Medieval and Renaissance Drama] Offered in 1980-81

EL 227 Greek and Roman Drama] Offered in 1980-81

EL 321 Shakespeare Fall and Spring

An intensive scrutiny of language, character and theme in several of Shakespeare's plays with a primary focus on *Hamlet* and *King Lear.* (Juniors and Seniors.)

Mr. Cubeta

WRITING

EL 260 Advanced Expository Writing Fall and Spring

In this course students will study and practice the techniques of expository prose writing. Though not intended to be remedial, the course is designed for those who seek a greater degree of competence in giving shape and direction to their writing. The primary means by which the class will discuss and study the strategies of effective expository writing will be the students' own work, but some attention will also be paid to the models provided by writers who manage to make use of the essay, not merely as a tool for exposition, but as a vital form for self-expression.

Mr. Moisan

EL 270 Prose Fiction II Fall, Spring

With advice and editorial assistance from the instructor, students will undertake more ambitious writing projects in order to develop their talents and to broaden their sense of technique and style. Students may choose to write stories, novelettes, novels, or, in special cases, plays. (Limited enrollment. Permission.)

Mr. Gavin (Fall), Mr. Martin (Spring)

EL 275 Poetry II Fall

A seminar course in which students are encouraged to undertake writing projects, with

advice and editorial assistance from the instructor, in order to discover where their talents may lie and to broaden their sense of technique and style. The class will meet twice a week to discuss samples of contemporary writing and each other's work. Each student will also work in conference with the instructor. (Limited to twelve students. Permission.)
Mr. Pack

EL 460 Workshop in Poetry and Prose Fiction Fall, Spring

This course essentially replaces EL 560. It is designed for the advanced student who wishes to continue his/her work in creative writing. Weekly workshops will give the student the opportunity to submit work for criticism by the instructor and other students. Students will have the opportunity to undertake extended projects of their own design. (EL 170 or 175; EL 270 or 275. Permission.) Limited to 12 students. Mrs. Mansfield (Fall)
Mr. Gavin (Spring)

SPECIAL PROJECTS

The department will consider applications from qualified students who wish to undertake special projects in literature, dramatic literature and writing. A student proposing to undertake such a project should submit a detailed proposal to his adviser two weeks prior to registration.

EL 500, 520, 560 Special Projects
Fall or Spring
Staff

SENIOR PROGRAM

The Senior Program includes a General Examination (EL 705) and a one-term Senior Essay or a two-term Honors Thesis (EL 700 or 710). Normally all seniors register for one unit of EL 700 or 710 in the Fall Term and take the General Examination (EL 705) in the Winter Term. Students undertaking two-term Honors Theses programs register for and complete them during spring term.

All Senior Essays (one-term writing programs and projects) must be completed no later than the end of the first week of winter term. Late essays will receive a grade no higher than C. No essays will be accepted after the end of winter term. All Honors Theses (two-term writing programs and projects) must be completed no later than the end of the second week of classes after spring recess. Late theses will receive a grade no higher than C and will have no oral examination or outside reader. No Honors Theses will be accepted after May 1. No one is permitted to register for the second term in an Honors Thesis program unless he or she has accomplished and submitted a substantial amount of work during fall term.

*Foundations Course.

THE PROGRAM IN ENVIRONMENTAL STUDIES

The interdisciplinary major in Environmental Studies has fields of emphasis in any of the Natural Sciences plus the Social Sciences, Economics and Geography. Middlebury's locale affords a unique opportunity for field work in these areas and the major is designed to take full advantage of this opportunity. It is designed for the student who comes to Middlebury with an interest in such interdisciplinary careers as terrestrial or marine ecology, oceanography, earth science, environmental engineering, physiography, pollution control, wildlife management, urban planning, human ecology or environmental economics.

The curriculum is carefully constructed from the College's offerings in consultation with the individual student. Students majoring in Environmental Studies take an emphasis core of courses in Biology, Chemistry, Economics, Geography, Geology, or Physics plus cognates in science and non-science. The depth in his field of emphasis and the breadth in the cognate courses give the student a foundation and perspective in environment that are appropriate to the liberal arts tradition. The major is designed as preparation for graduate school in most cases. Also, the breadth releases the senior Independent Study from the confines of a departmental major permitting instead the study of a topic that has interdisciplinary aspects and permits interdisciplinary seminars. Seminars involving Senior Thesis reports from all students are held throughout the senior year as projects are completed.

The Environmental Studies Program is so designed that the College requirement of a concentration is already built into the major requirements for each "major track."

Students interested in this program should consult Professor Howard E. Woodin, Coordi-

nator of Environmental Studies, for further information and assignment to appropriate advisers.

Minimum Requirements for a Major in Environmental Studies: An Environmental Studies Major requires a number of departmental "major track" courses plus two or three senior thesis courses in the elected field of emphasis. In addition and more particularly the following conditions apply:

Ecology — (Biology department) (BI 190, 311 + 3 upperclass Biology + 2 Senior Thesis)
plus: a) 6 semesters of Chemistry, Geology, Mathematics or Physics with at least 1 semester in each discipline
b) 5 semesters of pertinent non-science courses

Environmental Chemistry — (Chemistry department) (5 upperclass Chemistry + 2 Senior Thesis)
plus: a) BI 190 + 5 semesters of Biology, Math or Physics
b) 4 semesters of Geography, Geology or other cognate courses, with permission

Environmental Geography — (Geography department) (5 upperclass Geography + 2 Senior Thesis)
plus: a) 5 semesters Biology, Chemistry, Geology, or Physics
b) 5 semesters of pertinent cognate courses in Economics, History, Mathematics, Political Science, or Sociology

Evironmental Geology — (Geology department) (6 Geology + 3 Senior Thesis)
plus: a) BI 190; MA 112; statistics and computer use (e.g. GG 201; EC 210; or MA 105 + 123)
b) EC 365 plus 4 other pertinent non-science (including Geography) courses.

Environmental Physics — (Physics department) (3 upperclass Physics + 3 Senior Thesis)
plus: a) Math 112, 113, 201 + Physics 109, 110, 332.
b) BI 190 + 3 semesters Biology, Chemistry, or Geology.
c) 4 semesters pertinent non-science.

Environmental Economics — (Economics department) (EC 155, 355, 365, 470 plus 2 electives (not including EC 152) + 2 Senior Thesis)
plus: a) BI 190 + 4 semesters Biology, Chemistry, Physics, or Geology.
b) 6 semesters pertinent cognate courses in Mathematics, Political Science, Sociology or Geography.

FRENCH

Professors: Simon Barenbaum, Edward Knox (on leave) *Associate Professor:* Carol Rifelj *Assistant Professors:* Bethany Ladimer (at Middlebury in Paris), Nancy O'Connor *Instructor:* Martine Prieto, René Prieto *Visiting Instructor:* Carol Zuses *Assistant:* Mireille Barbaud

The French department considers competence in the French language to be the essential prerequisite to any advanced work, and consequently places incoming freshmen according to their ability and background in the language.

Beyond FR 205, courses are available to the student in the areas of further language study, literature, and civilization, at both the 200 and 300 levels.

Generally speaking, the advanced level program at Middlebury is weighted somewhat in favor of literature rather than civilization, while the reverse is true of the program in Paris. Students particularly interested in French civilization should consider not only FR 206, 222 and 313, but also those literature courses designed with a major socio-cultural component (FR 310 and 315); courses in other departments which deal in some depth with France (e.g. AR 305, HI 103-104, PS 225, PS 404, etc.); and the Middlebury summer and Paris programs.

Students interested in studying in Paris on the Junior Year program should contact the faculty member in charge prior to registration for their sophomore year. They should also seek out basic courses in other areas which can be fundamental to a foreign experience, such as history of art, European history, comparative politics and the American political system, sociology-anthropology, etc. Students planning to go to France for the spring semester are required to take FR 206.

Required for the Major: FR 205 or the equivalent; any two courses from 206, 207, 208, and 209, or the equivalent; four courses at the 300 level or above. Total of not fewer than 10 courses, not more than 14. At least two courses in French must normally be taken

during the senior year at Middlebury. College Board AP credits count toward graduation but not toward the major.

Most courses taken in France will be at the 300 level.

A French major at the School in Paris is expected to earn no more than 5 units (full year program) or 3 units (semester program) toward the French major, exclusive of the preliminary session, which does not count toward the major.

Joint Majors: A joint major's French component will normally represent at least seven courses in French, including at least two at the 300 level. Some part of the joint major must demonstrate ability to function at an advanced level in both fields, as evidenced by at least one French course during the senior year.

Senior Work: The department encourages students who are interested in doing independent work in their senior year to do so, but recognizes that such study does not necessarily fit the plans or needs of every senior. By the same token, we propose that a senior consider various possible formats for independent work: a senior essay (FR 500, one term) or a thesis (FR 700, fall and winter term, or winter and spring). The FR 500 may also cover some degree of practical work such as serving as a teaching intern. Finally, independent work may be undertaken in the context of a course as well. Students who wish to undertake a 500 or 700 project should present their proposal well in advance of registration for the semester when the work is to be done.

Honors: To be a candidate for honors a student must have an average of at least B+ in French. Honors will also depend on performance in senior work approved in advance by the department.

FR 101 Intensive Beginning French Winter

An introduction to listening, speaking, reading, and writing in French, providing the syntactic and semantic foundations of the French language in a concentrated program of grammar presentation, drills laboratory work, and discussion. Primary emphasis will be placed on the student's active use of the language. Staff

FR 102 Beginning French Spring

Continuation of FR 101, dealing with more complex French. (FR 101. Some students who have already had French may enroll directly with permission.) Mr. Barenbaum

FR 201 Intermediate French Fall, Spring

An active and comprehensive review of language skills, with emphasis on the sound system and syntactical problems. Designed for students whose background in French is limited or shaky. Staff

PREREQUISITES TO THE MAJOR

FR 205 Toward Liberated Expression Fall, Spring

A course designed to increase and perfect the ability to express oneself in spoken and written French. Emphasis on precision, variety and vocabulary acquisition. Sections limited to 15 students.

This requirement for the major may be satisfied by placement at a higher level. Staff

Two of the following four courses:

FR 206 Introduction to Contemporary France Fall, Spring

An introduction to the terms and themes of the political, economic, social, and cultural sectors, in the context of France since 1945. Special emphasis on developing the student's ability to comment upon and analyze selected passages, and newspaper and magazine articles. The latter part of the course will be devoted to student presentations on topics of special interest, such as cinema, the women's movement, political parties, the welfare state, provincial life, etc. Staff

Each of the following three courses is a survey of some of the major figures and trends in French poetry, theater or prose, designed to acquaint the student with the history of the genre, the technical problems involved and the use of French critical terminology in the study of literature.

FR 207 Introduction to French Poetry Spring
Staff

FR 208 Introduction to French Theater Fall, Spring
Staff

FR 209 Introduction to French Prose Fall, Spring
Staff

LANGUAGE, LITERATURE, CIVILIZATION

FR 215 Writing in French Spring

This course will be devoted to developing

the student's ability to write clear, nuanced and well-articulated French in a variety of modes and formats. Recommended for students who wish more language practice or whose instructor recommends such work before courses at the 300 level. (One course 206-7-8-9. Others by permission.) Staff

FR 222 Facets of a Changing France Spring

Newspapers, magazines, texts and films will present in a variety of facets the image of a changing country. The main part of our classroom work will be oral: reports and discussions by individual students and small groups. (FR 206 or special permission.)

Mr. Barenbaum

FR 305 Advanced Language Practice Spring

Intensive work in composition, stylistics, grammatical analysis and translation. Attention will be given to such problems as comparative grammar, lexical structure and differentiation between spoken and written language. Ms. Prieto

FR 310 Literature and Society in the Ancien Regime Fall

A study of works by representative authors such as Corneille, Pascal, Diderot, Molière, Voltaire, Rousseau, and Beaumarchais, aimed not only at analyzing recurrent themes and techniques (literature) but also who wrote about what and for whom (society).

Ms. O'Connor

FR 313 French Civilization in the Twentieth Century Fall

Exploration of how political, institutional and socio-economic structures have influenced daily life and the "mental set" of individuals and groups in twentieth-century France. Typical topics may include the family, work and leisure, the role of education, rural life vs. urbanization, the role of the state, etc. (FR 206 or the equivalent.)

Ms. Prieto

FR 315 The Nineteenth Century Novel Fall

This course will study major novels of Stendhal, Balzac, Flaubert, Zola, and Huysmans, including an examination of the interrelations of literary works and socio-cultural conditions. Ms. Rifelj

FR 316 Nineteenth Century Poetry Spring

Readings of various poets with special attention given to Baudelaire, Rimbaud, and the Symbolist movement. Ms. Rifelj

FR 317 Modern French Theater Spring

A study of the major currents of the modern French Theater from Symbolist Drama to the Theater of the Absurd. Emphasis will be on the thematic and literary content of the plays, but problems of theatrical technique (staging, sound, role of audience, use of ritual, etc.) will also be considered. Students will be reading the plays of Jarry, Claudel, Montherlant, Ionesco, Anouilh, Genet and Sartre.

Ms. Zuses

[FR 320 The Twentieth Century French Novel]

FR 321 French Classical Theater Fall

A study of French theater during the periods of Louis XIII and Louis XIV: the times, the companies, the publics and the playwrights. Plays by Corneille, Molière, and Racine will be read and discussed.

Mr. Barenbaum

[FR 331 The French Novel and the Crises of "Femininity"]

FR 350 French Cinema Fall

Studies in the development of French cinema, with emphasis placed on leading directors, as well as on the language of film criticism and analysis. In addition to viewing films, students will do reading in the history and theory of film. There will be a section in French and a section in English.

Mr. Prieto

FR 442 Workshop in French Theater Spring

Group study of a play in French, concentration on the play itself, the problems of production, and the presentation of the play to various audiences (high school, other colleges, Middlebury). Students will participate as actors and technicians and will have an active "teaching" role to play as they explain the play and the production to their audiences.

Mr. Barenbaum

FR 500 Independent Projects Fall, Spring

Qualified students may be permitted to undertake a special project in reading and research under the direction of a member of the department. Approval of the project should be obtained well in advance of

registration for the semester in which the work is to be done. Staff

FR 700 Senior Research
Fall, Winter, Spring

For Senior majors who are candidates for Departmental Honors. Students should seek out an adviser and submit a proposal to the department well in advance of registration for the semester in which the work is to be undertaken. Staff

FR 704 Senior Seminar: The Twentieth Century French Novel Spring

We shall study how time and space, two major elements in the twentieth-century novel, emanate from the increasing anthropocentricity of "Man's" world. Both sociological and psychological in its approach to the problem of the human condition, the novel also displays an extreme concern with the nature of the genre itself. Mr. Prieto

GEOGRAPHY

Professor: J. Rowland Illick (on leave)
Assistant Professor: Perry Hanson (chairman)
Instructors: Robert Churchill, Phillip Frankland *Resident:* Barry Glick

Geography is concerned with describing and analyzing spatial patterns and with understanding the processes by which spatial form changes through time. In pursuing these concerns geographers have customarily carried out their studies in many different cultures and environments; consequently there has been a strong emphasis upon international as well as regional and local studies. Moreover, the diversity of economic, social, political, and physical variables involved in spatial studies has created many interdisciplinary links. Finally, geography has a tradition of service to society. Geographers serve as policy makers in business and in local, state, and national government, addressing issues in resource use, planning, transportation, and a variety of problems related to the spatial organization of society.

Required geography courses for the major in Geography: Ten geography courses are required to complete the major. These include 1) an introductory course (GG 100), 2) the core sequence (GG 201, GG 250, GG 260, GG 300), 3) two seminars (GG 451, GG 452, GG 453, GG 454), 4) either GG 202 or GG 301, and 5) two other geography courses. The completion of the core sequence is required before a student may take a seminar.

Required cognate courses for the major in Geography: Students in consultation with their advisers will design a cognate curriculum, which must include at least one mathematics course (for example, the foundations course MA 105 would be appropriate for those with only three years of secondary school mathematics).

Departmental Honors: Students who seek to earn Honors are required to write a thesis. An Honors thesis proposal must be submitted to the department for approval prior to the term in which the thesis is to be written. If the proposed topic is approved, the student may register for GG 700. After an evaluation of the thesis, Honors are conferred or denied on the basis of 1) the grade assigned to the thesis and 2) compliance with the rules stated under Departmental Honors in the Handbook.

INTRODUCTORY COURSE

GG 100 The Geographic Perspective
Fall, Spring

An examination of the foundations of modern geography. Emphasis is placed on the spatial organization of human society and people's relation to the environment. The geographic dimensions of current urban, national, and world problems are stressed. 2 hours lect., 1 hour disc.
Mr. Churchill, Mr. Hanson

CORE COURSES

GG 201 Techniques of Environmental Analysis Fall, Spring

An introduction to quantitative techniques used in studying spatial variation of environmental phenomena. Particular emphasis is placed on the geographer's use of the modern digital computer in analyzing spatial data. Topics include data collection, data description and presentation, and data use and interpretation. 3 hours lect., 3 hours lab.
Mr. Frankland, Mr. Hanson

GG 202 Cartography and Graphics
Spring

An introduction to the compilation, design, production and use of functional maps and graphics with emphasis on both the practical and theoretical aspects of analysis and cartographic representation of qualitative and quantitative spatial data. Various data sources including enumerative statistics, remote imagery, and maps are used as base

for compilation of a variety of general and thematic maps e.g., outline maps, hazard risk maps, land-use maps and statistical surfaces. (GG 201 or equivalent suggested as prerequisite or to be taken concurrently) 2 hours lect., 3 hours lab.
Mr. Churchill, Mr. Frankland

GG 250 Physical Earth Processes Fall
Study of physical processes that govern the temporal and spatial distribution of climatic, topographic, and soil resources. Emphasis is placed on ways in which human activity affects and is affected by these physical resources. Laboratory and field problems are included as an integral part of the course. 3 hours lect., 3 hours lab. Mr. Churchill

GG 260 Human Geography Spring
Study of the processes that explain why spatial distributions are structured the way they are. Topics include: 1) patterns of movement, such as consumer travel behavior and people's change in place of residences; 2) the spatial diffusion of innovation; 3) patterns of land use; 4) problems of economic development; 5) the location of cities and the internal structure of urban areas; 6) the locational patterns of industrial activities. 3 hours lect., 3 hours lab. Mr. Glick, Mr. Hanson

GG 300 Research Methods in Geography Fall
An examination of geographic problem definition, methods of data collection, and scientific methods of problem solving. The course is an intensive writing course and employs faculty tutorials to provide close supervision of writing. 2 hours lect., 1 hour tutorial. Mr. Churchill, Mr. Frankland, Mr. Glick, Mr. Hanson

GG 301 Advanced Quantitative Methods in Geography Spring
An examination of advanced topics in quantitative geography. Topics deal with models of locational structure, including interaction, networks, modes, hierarchies, surfaces, and diffusion. 2 hours lect., 3 hours lab. Mr. Frankland

GG 400 — level Seminars Fall, Spring
Seminars are to provide the advanced student with an opportunity to pursue particular research areas in depth. They require intensive writing and reading of the relevant literature. Four seminars are identified: economic, physical, quantitative methods, and urban. Seminar descriptions will be provided for each registration period. Staff

GG 451 Seminar in Economic Geography: Spatial Structure and Human Welfare Fall
An examination of the patterns of inequality that exist at the international, regional, and urban levels of society. Emphasis will be placed on the relationship between the spatial organization of society and levels of well being. Policies designed to improve current conditions will also be discussed. Mr. Glick

GG 452 Seminar in Physical Geography

GG 453 Seminar in Quantitative Methods in Geography

GG 454 Seminar in Urban Geography

NON-CORE COURSES

[GG 330 South and East Asia]

[GG 331 Middle East and North Africa]

GG 351 The Urban World: Patterns, Problems, and Policies Spring
Geographical analysis of urbanism and urbanization including the structure and mechanics of the urban space-economy. Particular attention is placed on significant problems of cities in both the developed and underdeveloped world and on policies for addressing these problems. 2 hours lect., 1 hour disc. Mr. Hanson

GG 352 The Geography of Development Fall
An examination of development and underdevelopment from a geographical perspective. Topics to be discussed include problems of regional growth and inequality, the role of urbanization in development, international trade and development, regional development planning, and environmental constraints and problems. 2 hours lect., 1 hour disc. Mr. Glick

GG 353 Natural Hazards Spring
Analysis of patterns and trends of losses inflicted by environmental hazards — earthquakes, hurricanes, floods — focusing on the ways in which people perceive, respond, and adjust to extreme events in nature as private citizens, resource managers and members of social groups. Physical processes are con-

sidered only as a basis for understanding spatial and temporal distribution of extreme events and for appreciating how human activity can alter the magnitude of some physical processes. Reading and discussion of relevant, primary literature in geography, psychology, and sociology. 2 hours lect., and 1 hour disc. Mr. Churchill, Mr. Frankland

GG 354 Weather and Climate Fall

A systematic examination of atmospheric processes that control weather and climate. The ways in which human activities depend upon climate are emphasized as well as ways in which those activities may intentionally or inadvertently alter weather and climate. 3 hours lect., 3 hours lab. Staff

GG 500 Research in Geography
Fall, Spring
Staff

GG 700 Senior Research
Fall, Winter, Spring
Staff

GEOLOGY

Professor: Brewster Baldwin (on leave spring term) *Assistant professors:* David Clague (on leave), Thomas Davies (chairman), William Glassley *Visiting Assistant Professor:* Raymond Coish

The department of Geology provides students with an opportunity to experience the methods of science, using geologic examples. In addition, we endeavor to provide those students who may wish to pursue the field of geology with the opportunity to acquire basic knowledge and principles which will equip them for further professional training. With the Green Mountains to the east, the Adirondacks and Lake Champlain to the west, the environs of Middlebury College afford an excellent setting for study and research in geological, oceanographic, and environmental science. The curriculum takes advantage of this setting by stressing field-oriented and laboratory supported inquiry of problems in all facets of earth science. Students are encouraged to develop ways of actively examining and interpreting observational data. Since Vermont is a classic area for study of mountain system evolution, one general theme of the program is to relate geologic process to the origin and evolution of global tectonic patterns integrating data from the world's oceans and continental areas.

The department offers five courses at the introductory level, two of which (GL 102 and GL 172) have been designated Foundations courses. Planetary Geology, (GL 192), Elements of Oceanography (GL 161), Global Tectonics (GL 172) and Environmental Geology (GL 112) introduce students to active research areas in geological science and are vehicles of acquiring the basic understanding of processes which have shaped the earth. Students can enter the program in geological science through any one of these courses, and may then concentrate in these or other areas depending on where their interests develop. Dynamic Earth (GL 102) is wide-ranging in scope and is intended to introduce students to the breadth and significance of geology. Although providing a useful introduction to the field, this course is intended particularly for students who are not planning to major in geology, and may not be counted in the 11-course minimum requirement for the major.

In general students are expected to have completed at least one of the five introductory level courses before proceeding to more advanced work. Beyond the introductory level, work at the intermediate level takes the form of more advanced courses (200 and 300 series) and less formal seminars (400 series) designed to encourage independent study of specific topics. Work in the geological sciences culminates in a senior thesis that consists of an original contribution based on field and/or laboratory investigations by the student. There is a great deal of flexibility in programs possible in earth science and students contemplating concentration in geology must consult with faculty to plan their individual academic programs.

The program for a Geology major shall consist of 11 courses within the department. These must include a 3-unit senior research program, and may include no more than 2 courses at the introductory level. Interdisciplinary concentration is encouraged, and a maximum of 3 nonintroductory level courses in related sciences may be counted towards the 11-course requirement for the major. A list of courses in Biology, Chemistry, Mathematics, and Physics which are considered acceptable may be obtained from faculty members. Other courses in these or other departments may be accepted, at the discretion of the faculty.

Although not explicitly required for the major, students planning to major in Geology are strongly encouraged to take courses in the cognate sciences of Biology, Chemistry, Mathematics, and Physics. Students considering graduate school or other further professional training *must* ensure that their academic program includes appropriate courses in these cognate sciences.

***GL 102 Dynamic Earth** Spring

Over the past two centuries our society's perception of the world in which we live has changed from that of a stable, essentially unchanging environment, shaken only by occasional catastrophic 'acts of God', to that of a world continuously changing whose history extends over time periods of billions of years. As our knowledge of the Earth and our ability to measure rates of change improve, such changes in our physical environment are increasingly perceived as being cyclic, or at least orderly, in nature. This course will examine our present concepts of processes operating at the surface of the Earth, against a background of observational data. The concepts will be presented in historical context: how were the observations previously interpreted; how did the present view develop? Three hours lect., three hours lab.

Mr. Davies and Staff

[GL 112 Environmental Geology] Offered in 1980-81

Analysis of examples that show geologic constraints on man's activities, Emphasis is on water supply, ground-water hydrology, water law. Other examples examine landslides, earthquake prediction, oil-field blowouts, non-renewable mineral resources. Some examine man's responses, as individuals, social groups, and governmental agencies. Laboratory: use of topographic and geologic maps for environmental planning; field mapping of local environmental problems. Three hours lect., three hours lab. Mr. Baldwin

GL 161 Elements of Oceanography Fall

Oceanographic exploration introduced through study of ocean basins and continental margins. The multidisciplinary nature of oceanography is emphasized by using principles of marine geology, geophysics, geochemistry, and biology to address contemporary problems. Techniques of data collection are taught aboard the College's research craft, as part of continuing research on the evolution of Lake Champlain. Three hours lect., three hours lab. Mr. Davies

***GL 172 Global Tectonics** Fall

Sea-floor spreading and continental drift, origin and evolution of mountain systems, and concepts of plate tectonics viewed in light of recent advances in the geology and geophysics of ocean basins and continents. Laboratory: regional tectonic synthesis, field problems in Vermont geology. Three hours lect., three hours lab. Mr. Davies

GL 192 Planetary Geology Spring

The planets and their moons are examined from a geologic reference frame. Topics include photo interpretation of planetary surface features, internal structure and composition of planetary bodies, acquisition and interpretation of remote sensing data, and composition and origin of the lunar samples. The laboratory stresses the application of geologic principles and techniques in interpreting planetary data and includes local geologic field trips and an introduction to the polarizing microscope and the Middlebury College telescope. Three hours lect., three hours lab. Staff

GL 201 Bedrock Geology of Vermont Fall

A course designed to introduce geology majors to methods of describing rocks in the field and laboratory, and to interpretation of the origin of rocks. Most of the work will be field and laboratory experience, with some lectures on the classification and meaning of rocks, and on aspects of Vermont geology not seen in the six or eight field problems. Three hours lect., four hours lab. (GL 112, or GL 161, or GL 172, or GL 192, or permission.)

Mr. Baldwin and Staff

GL 252 Geomorphic Processes Spring

An investigation of landforms and surficial deposits in terms of processes (weathering, mass wasting, erosion, transportation and deposition) and geologic agents (running water, glacial ice, shorezone currents, wind, and man). Field and laboratory work will be directed to a reconnaissance of the glacial and post-glacial history of west-central Vermont. Three hours lect., three hours lab. (GL 112, or GL 161, or GL 172, or GL 192, or permission.) Listed jointly with Geography as GL 252. Mr. Churchill

GL 342 Marine Geology Spring

The oceans cover over 70% of the Earth's surface, but only in the last few decades has extensive investigation of the geology of the Earth beneath the sea been possible. This course will present the results of these continuing investigations. Although the whole field of marine geology will be reviewed, the emphasis will be on marine sediments and sedimentary processes, and the historical geology of the oceans. Laboratory: Synthesis of geological and geophysical data concerning a selected region of the ocean, with special emphasis on the results of the Deep Sea Drilling Project. Three hours lect., four hours lab. (GL 161 or GL 172, or permission.)

Mr. Davies

GL 381 Structural Geology Fall

The behavior of earth materials in a dynamic earth. Geometric, kinematic and dynamic analysis of deformational structure. Regional tectonic setting of earth structures. Laboratory: detailed mapping and interpretation of complex structures in Vermont geology; quantitative analysis and interpretation of deformation as shown on maps and aerial photographs; stereographic analysis of complex fabrics from varied local field areas. Three hours lect., four hours lab. (GL 172, or permission.) Mr. Glassley

GL 392 Igneous Petrology Spring

An inquiry into the origins, tectonic settings, and evolutions of magmas, utilizng field data, mineralogy, phase equilibria, and geochemistry of the igneous rocks. Laboratory will include field studies in Vermont and adjacent New York as well as extensive thin section studies of rock suites chosen to illustrate the varied petrogeneses of igneous rocks. Three hours lect., six hours lab. (CH 101, or CH 131, or permission.) Staff

GL 461 Stratigraphy and Paleontology Fall

Relation of the sedimentary record to tectonic evolution. Study of fossils, textures, mineralogy, and primary structures to determine environments of deposition and identify depositional systems. Correlation to integrate a regional paleogeography. Use of the geologic time scale to establish timing and rates of crustal changes. Laboratory: invertebrate fossils; hand specimen and thin section study of sedimentary rock suites; field problems. Three hours lect., four hours lab. (GL 252, or GL 342, or permission.)

Mr. Baldwin

[GL 481 Geophyiscs]

GL 491 Metamorphic Processes Spring

An analysis of metamorphism based upon the mineralogy, mineral assemblages, and textures of metamorphic rocks. Discussions will characterize the progressive metamorphism of sedimentary and igneous rocks. Emphasis will be placed on the interpretation of metamorphic processes in terms of tectonic environment. The use of metamorphic histories to understand tectonic events will also be discussed. (GL 392 or permission.)

Mr. Glassley

GL 492 Advanced Petrology Fall

A seminar series devoted to various topics concerning the comparison and origins of oceanic and continental occurrences of igneous rocks. (GL 392, or permission.) Staff

GL 550 Readings and Research Fall, Spring

Individual or group independent study, laboratory or field research projects, readings and discussion of timely topics in earth and environmental science. Staff

GL 750 Senior Research

A three unit senior program dedicated to original research in geological science resulting in a written thesis which must be orally defended. Staff

*Foundations Course.

See also Program in Environmental Studies.

See also Division of Natural Sciences.

GERMAN

Professors: Thomas Huber (chairman), Kimberly Sparks, Van Horn Vail *Lecturer:* Constance Kenna *Assistant:* Susanne Jantke

Departmental students are normally expected to take eight courses in German Literature. Since all higher-level courses are conducted in German, completion of German 202 or its equivalent is prerequisite for acceptance into the department. The department reserves the right to administer a placement test in order to determine the course with which a student should begin study of German at Middlebury. No credit is given for Advanced Placement. The department expects that all majors will have had at least one semester in a German-

speaking country by the time they graduate. Junior majors will normally spend the second semester at the Johannes Gutenberg-Universität in Mainz. There is no comprehensive examination in the senior year.

Honors: To be a candidate for honors, a student must have an average of at least B in German. Honors work is normally done during a student's last semester at Middlebury. Students have the option of doing either an independent thesis or a project.

GN 101 Elementary German Fall

The course consists of three lectures, three drills and laboratory. The lectures pre-drill the student, i.e. students are guided through the exercises they are to prepare for the following day's drill. *Drills:* drilling is done in groups of about ten students. Since they have been through the exercises in lecture, students are expected to display absolute and automatic control of drill assignments. Students take continuing German as their winter term course. Staff

GN 102 Elementary German Spring

Course-format as GN 101. Upon completion of German grammar, reading materials and audio visual materials will be introduced. (GN 101 plus winter term continuing German or equivalent.) Staff

GN 201 Intermediate German Fall

The course meets three hours a week in sections of about ten students. It begins with comprehensive grammar review; this is followed by a phase in which literary texts are used as a basis for further language instruction and for the acceleration of reading speed. In the final phase, progress in the language is supplemented by textual interpretation. (GN 102 or equivalent.) Staff

GN 202 Advanced German Spring

Course-format as GN 201. Modern German texts will be read and interpreted, and the students will be introduced to the methods of literary analysis. The course will further increase the students' fluency in spoken German and their facility in reading. Staff

(Prerequisite for all 300-level courses and higher is GN 202 or the equivalent.)

GN 301 Advanced Writing and Introduction to Literary Criticism Fall

The course is offered in modular format, each module lasting half the semester. Students must take the writing module and one of the criticism modules in any sequence.

Writing Module: Exercises in various styles of written German; systematic expansion of vocabulary with emphasis on idiomatic usage; special attention to correctness of grammar (offered both halves of the semester).

Ms. Kenna

Criticism Module A: Poetry (offered first half of the semester only). Mr. Sparks

Criticism Module B: Short Fiction (offered second half of the semester only). Mr. Sparks

GN 302 Readings in Literature, History, and Political Science

(May be taken concurrently with GN 301) Fall

The course is offered in modular format, each module lasting half the semester. Students choose two of the four modules. Modules offered the first half of the semester: readings on the theory of literature, readings in modern German history. Modules offered the second half of the semester: readings in the history of German literature, readings in political science. There will be no discussion meetings. Students will prepare three summary papers for each module to further their writing ability. Students concurrently taking GN 301 may substitute a second criticism module for one of the reading modules.

Mr. Sparks

[GN 303 Stylistics]

GN 305 The German Novelle I Spring

An introduction to one genre, the Novelle, as it evolves through the nineteenth and early twentieth centuries of German writing. The course will acquaint the student with the development of this literary form through several literary periods. (Readings do not overlap with GN 306.) Mr. Vail

[GN 306 The German Novelle II]

[GN 307 The German Novelle III]

[GN 310 German Lyric Poetry]

[GN 315 German Drama]

[GN 320 The Works of Bertolt Brecht]

GN 401 Emergence of German as a Literary Language Fall

From late Baroque up to and including *Sturm und Drang*. In addition to dealing

with selected literary works (including *Simplizissimus, Minna von Barnhelm* and *Die Soldaten)* as objects interesting in themselves, the course will study these works as a background for the age of Goethe and Schiller. Contrasting material from other writers of the era (e.g. Gottsched) will build a mosaic of aspects of Enlightenment. (Open to all students who have had GN 202 or its equivalent.) Mr. Huber

GN 402 Establishment of German as a Literary Language Spring

A representative selection of Goethe's early and mature works will provide the frame of the course. The student will be given insight into the artistic development of a single great figure and the surrounding minor literary figures. Readings will include an early novel of Goethe's, lyrics from throughout his career and several plays, including *Faust I.* Some of Schiller's poems, essays and plays will be used to counterpoint Goethe's intellectual and artistic development. (Open to all students who have had GN 202 or its equivalent.)
Mr. Huber

GN 406 Romanticism Fall

The course will provide the student with techniques for examining a period in depth. The emphasis will be on narrative forms. The course will give the student a basis from which to understand themes and forms as they are carried forward into the twentieth century. (Open to all students who have had GN 202 or its equivalent.) Mr. Vail

[GN 415 The German Novel]

[GN 420 Modern German Literature]

[GN 421 Twentieth Century Literature]

[GN 422 Insiders and Outsiders — Literature and Culture of the Weimar Years]

[GN 500 Independent Study]

See also Division of Foreign Languages.

ITALIAN

See Spanish and Italian Department.

HISTORY

Professors: William Catton (on leave), Nicholas Clifford, Travis Jacobs (chairman, on leave fall term), Marjorie Lamberti, Pardon Tillinghast (acting chairman spring term) *Associate Professor:* John Spencer (on leave spring term) *Assistant Professors:* David Macey, Roger Martin, John McCardell *Instructor:* Thomas Cox, Lee Sands *Visiting Assistant Professor:* Robert Hathaway

The department of History seeks to teach students to think and express themselves clearly and to ask the right questions of themselves and the world around them. It believes, therefore, that training in research, critical analysis, and writing is extremely important. A number of majors attend professional schools, especially in law, business, and international relations; several majors each year receive either an elementary or a secondary school Teaching Certificate while at Middlebury.

The department offers two Foundations courses (HI 103 and HI 104), and it offers broad geographic coverage, including courses in African, East Asian, Middle Eastern, and Russian History, as well as courses in American and Early and Modern European History.

The History major combines an introduction to several areas of historical knowledge with intensive training and practical work in historical research. The department does not require specific courses, nor does it require a common core of knowledge which students are expected to have before they graduate. Majors must take at least one semester lecture course in early history, choosing from the following: HI 103, 207, 313, 325, 326, 327, 328 and must take at least three semester courses outside their main field of concentration (the fields are defined as European, American and Non-Western). One course may count towards the fulfillment of both these requirements.

Each major must also take a Research Seminar (HI 401-419 or when a research seminar is not offered in a particular field, HI 500) and a Readings course (HI 420-440) by the end of junior year. Senior majors must write a two-semester thesis (see below under HI 700). With departmental permission, certain cognate courses (normally not exceeding two) may be counted for credit toward a major in History. In addition, PA 231, Philosophy of History, counts for credit toward the History major.

Required for all History majors: At least ten courses (winter term senior independent work may be counted), including a Research Seminar, a Readings course, and a senior thesis. Students interested in combining a History major with the Teacher Education Program should ensure through consultation with both the program and the department that they will have no conflicts in their schedules.

HI 100-399 Lecture courses

These courses generally meet for two one-hour lectures and a one-hour discussion section (12-18 students) each week; in addition to examinations, these courses require a formal paper.

HI 401-419 Research Seminars

The purpose of the research seminar is to introduce the student to methods of research and historical writing. During the first few weeks the student reads in the area of the course and is introduced to bibliographical and methodological problems. During the rest of the course the student writes a long paper on a subject of his choosing in consultation with the instructor. The research seminar is required of majors in their junior year and is open to others by permission. The department may permit a student to write an equivalent research paper in a field not covered by the research seminars, in order to fulfill this requirement; in this case he should register for HI 500. The only research seminar in American history is HI 402.

HI 420-440 Readings Courses

Unlike the courses below the 400 level, which are primarily lecture courses, the readings courses are smaller group discussions of particular periods or topics. They are open to all students, although in cases of overcrowding. History majors will be given priority. (Required of History majors prior to completion of junior year. Note that normally HI 500 cannot be used to fulfill the readings course requirement.)

HI 500 Special Research Projects

Fall, Spring

(Permission.) Staff

HI 700 Senior Independent Study

Fall, Winter, Spring

All senior History majors will write a two-semester thesis under an adviser in the area of their choosing. The department encourages students to do their theses during the fall and winter terms. Further information on the nature of the thesis is available from the department. Staff

HI 705 Teaching Assistantship

Fall, Spring

Teaching assistance in discussion sections of certain lecture courses. Permission of the course instructor is required.

FOUNDATIONS COURSES

***HI 103 Turning-points in Early Modern History** Fall

A consideration of four situations, in two-week blocks, where an individual or a group challenged an aspect of prevailing mores. The course will include the study of such figures as St. Francis, Joan of Arc, and Galileo. This material will be interspersed with readings discussing, at two levels, what sort of job history as a discipline is intended to do. The course is not intended to prove any theory, so much as to open students' minds to how people have behaved, in specific situations, over the six hundred years that comprise earlier modern history. (One section of his course, limited to 15 students, will serve to fulfill the freshman writing requirement.)

Mr. Tillinghast and Staff

***HI 104 The Formation of the Nation State in Western Europe, 1600 to Modern Times** Spring

The course will focus on the problem of the formation of the nation state as a way of exploring the meaning of the historical experience of the West over the last four centuries. Stressing the dimension of time in the historical process, the course will show how individuals and ideas, conditions and contingencies interact in a chronological sequence and how traditions and patterns of social behavior continue amid change. The narrative will be related in a series of flashbacks to show how the European monarchies built up nation states, how the conflict between authority and liberty was fought in the Puritan Revolution and the Revolution of 1789 in France, how the industrial revolution transformed society and government, why the nation became the dominant group to which people give their loyalty, and what cleared the way to liberal democracy in Western Europe.

Miss Lamberti and Staff

EUROPEAN HISTORY

HI 201 Roman History: The Republic Fall

These courses will be conducted as seminars with occasional lectures by the instructor. Readings will be available in English with the text of the original languages on facing pages whenever possible. The courses will focus on limited time periods rather than serve as a general survey. Students are encouraged to study Latin and Greek to appreciate the shortcomings of translation and to sharpen their critical acumen in the evaluation of historical documents. Either HI 201 or 202 may be elected without the other course. (CL 150 or PS 101 or HI 103 or HI 104.)

Miss Heibges

HI 202 Roman History: The Empire Spring

These courses will be conducted as seminars with occasional lectures by the instructor. Readings will be available in English with the text of the original languages on facing pages whenever possible. The courses will focus on limited time periods rather than serve as a general survey. Students are encouraged to study Latin and Greek to appreciate the shortcomings of translations and to sharpen their critical acumen in the evaluation of historical documents. Either HI 201 or 202 may be elected without the other course. (CL 150 or PS 101 or HI 103 or HI 104.)

Miss Heibges

HI 313 Russian History to the Great Reforms Fall

The single most important characteristic of Russian history has been the role of the state and its ruler, the "Emperor of All the Russias." This introductory course will focus on the origin and development of the centralized Russian state and its autocratic system of government, and the relationship between these processes and the evolution of particular social groups. It will be organized topically around a series of specific problems including: Was there a Kievan State? the rise of Muscovy; the subordination of noble and peasant; Orthodoxy, nationalism and the West; modernization and the rise of the "state" concept; enlightened absolutism or noble ascendancy; who is the opposition: bureaucracy or intelligentsia; the cursed question: how to emancipate the peasant; the nature of Russia under the Old Regime.

Mr. Macey

HI 314 Russian History from the Great Reforms to the Present Spring

A study of the social, economic, and political causes and consequences of the Russian Revolutions of 1905 and February and October 1917 as a basis for understanding the dilemmas of the Soviet system. The course will concentrate on the period between the accession of the last Tsar, Nicholas II, in 1894, and the onset of collectivization, industrialization, and the five-year plans at the end of the 1920's. Topics will also include Stalinism, the Terror, and the nature of contemporary Soviet society. Mr. Macey

HI 315 History of Modern Europe, 1815-1900 Fall

A study of Europe in the nineteenth century emphasizing problems in social and intellectual history. The political turmoil and ideologies of the age will be studied as part of a larger process of social change.

Miss Lamberti

HI 316 History of Modern Europe, 1900-1968 Spring

A study of Europe in the twentieth century concentrating on the origins and the impact of the First World War, the rise of fascist movements and the Nazi dictatorship, the Bolsheviks in power and the triumph of Stalinism, the outbreak of the Second World War, the effects of the peace settlement and the coming of the cold war, and Europe's economic recovery from the devastations of war and quest for unity. Miss Lamberti

HI 317 History of France, from the Old Regime to the 20th Century Spring

An introduction to French history between 1750 and 1940, this course will examine those historical experiences that have been fundamental in the making of modern France. Concentrating on the interrelationships between social, economic, and intellectual history, primary attention will be devoted to France's successive crises, both revolutionary and non-revolutionary, and the continuities which not only underlay them but also link them to the political consolidation and economic and social modernization of the 20th Century. Mr. Macey

HI 318 English History as a Background for English Literature Spring

From the Elizabethan period to the First

World War. Stress will be on intellectual and social history, the development of forms of society, and of ways of looking at it, that made it useful for authors to treat literary themes at particular times in particular ways.
Mr. Tillinghast

HI 325 The Civilization of the Dark Ages Fall
Western Europe from the 5th to the 11th centuries. This was a barbaric world, shot through with memories of former grandeur, but with little to hope for from the future. In view of this outlook, its achievements were astonishing. Mr. Tillinghast

HI 326 The Medieval Outlook, 1050-1300 Spring
During the 11th century, something happened to the peoples in Western Europe: an outburst of energy in every field transformed them within 200 years from semi-barbarians into members of an alert and driving group of cultures. Then the advances began to slow down. The course will try to find out why.
Mr. Tillinghast

[HI 327 Europe in the Renaissance] Offered in 1980-1981

[HI 328 The Reformation] Offered in 1980-1981

HI 411 Writing and Research, War of Illusions: How the First World War Began Fall
The class will study the fears, rivalries and conflicts which lined up the European Great Powers into two armed camps, the extent to which the War was the logical extension of expansionist aspirations, and the pursuit of power politics, and what assumptions and illusions about war permeated public opinion, diplomacy, and military strategy. The class will also reconstruct what happened during the fateful five weeks from June 28 to August 4, 1914, with emphasis on the decisions, miscalculations and behavior of the statesmen, diplomats, and generals who brought war as a fact. Miss Lamberti

[HI 414 European Revolutions and Revolutionaries, 1787-1921] Offered in 1980-1981

HI 418 Writing and Research in English Church History Spring
Topics will be restricted to the 18th and 19th centuries. Possible areas of research include Methodism and the Evangelical Revival, missions and the movement towards ecumenicism, the abolition of slavery and the campaign for Catholic and Jewish emancipation, and the Oxford Movement and Church reform. Mr. Martin

[HI 421 Germany, 1918-1933: The Weimar Republic and the Rise of the Nazi Movement]

[HI 423 The Stuart Period] Offered in 1980-1981

HI 425 Henry VIII and the Historians Spring
Concentration on the 1530's, over which there is at present a great deal of debate among historians. Do the changes in that decade constitute a "revolution," and does that overworked word mean anything in such a context? Mr. Tillinghast

HI 427 Criticism and the Birth of the Modern World: Marx, Engels, and Marxism Fall
This course will focus on the origins of the critical approach to modern society as represented by Marx and Marxism. Beginning with an examination of the French and Industrial Revolutions and the German philosophical response which will help place Marx within his historical (and multi-disciplinary) context, the course will then focus on representative writings by Marx and Engels that refract the principal problems of modern society — social, economic, and political. The course will culminate with some consideration of developments in the socialist movement in the years between the death of Marx in 1883 and the beginning of the First World War, particularly in Germany (Bernstein, Kautsky) and Russia (Lenin, Luxemburg). Original writings and sources will be utilized wherever possible — supplemented when necessary by secondary, background materials.
Mr. Macey

[HI 428 England 1530-1689: Protest and Rebellion in English Religious Thought]

[HI 431 Mystics, Martyrs, and Moralists: Reformation and Revival in England Between 1530 and 1830]

HI 500 Special Research Projects Fall, Spring
(Permission) Mr. Tillinghast, Miss Lamberti, Mr. Macey, Mr. R. Martin

AMERICAN HISTORY

HI 203 United States History, 1492-1861 Fall
A survey of American history from Old World origins to the Civil War. The coverage will be thematic and topical, with emphasis upon selected political, social, and intellectual developments. (One section of this course, limited to 15 students, will serve to fulfill the freshman writing requirement.)
Mr. McCardell and Staff

HI 204 United States History, 1861-1977 Spring
A survey of American history from the Civil War to the present, with special attention to the impact of industrialism upon social, political, and intellectual activity. A continuation of HI 203, but an independent course; there are no prerequisites.
Mr. McCardell and Staff

[HI 302 Economic History of the United States]

HI 303 The Era of the American Revolution, 1763-1800 Fall
A study of the origins, progress, and significance of the American Revolution, emphasizing the disruption of the balance of empire, the ideology of revolution, the framing of new governments, and the first decade of nationhood under the Constitution.
Mr. McCardell

[HI 305 Twentieth Century America, 1900-1940] Offered in 1980-1981

HI 306 Twentieth Century America, 1938-1978 Spring
A study of the political and social history of the United States during the mid-20th century, concentrating on the road of World War II, the War, the Cold War, and postwar America from Truman's Fair Deal to the New Frontier, the Great Society, Nixon, and the end of an era of progressivism. Mr. Jacobs

[HI 307 Black History] Offered in 1980-1981

HI 308 American Intellectual History Spring
The purpose of the course is to assess the origin, durability, and intensity of representative and influential ideas in the development of the American ethos from the Colonial period to the present. Close attention will be given to individuals who defined ideas as well as to the social and cultural context of ideas. A chronological approach will be used with additional emphasis on ideological issues whose tenure transcends historical periods.
Mr. Cox

HI 311 American Diplomatic History Fall
An analysis of United States involvement in foreign affairs, with particular attention to the clashing demands of the political, strategic, economic, and moral factors which have contributed to America's rise to great power status. Emphasis on the twentieth century.
Mr. Hathaway

[HI 380 Civil War and Reconstruction] Offered in 1980-1981

HI 402 Writing and Research in American History Spring
The course, taught by the American history staff, emphasizes methodology and writing, and students will be able to select research topics, in consultation with the staff, from the broad range of the American past. All students will write and submit a research paper based on primary source material. No 500 projects in American history will fulfill the research seminar requirement. Staff

HI 420 Great American Historians Fall
An examination of the changing interpretations of American history, from George Bancroft and the nineteenth century Romantic Historians to the "Consensus" and "New Left" writers of the 1950's and 1960's, with particular emphasis upon the Turner-Beard-Parrington group of Progressive historians and a few of the principal mid-twentieth century writers. Hofstadter, Nevins, Potter, Schlesinger. Some of the reading will focus upon changing interpretations of the Revolutionary, Jeffersonian-Jacksonian, Civil War, and Populist-Progressive eras.
Mr. McCardell

HI 435 Readings in American History Fall
Readings will focus on various periods and

topics in American history, such as the Revolutionary Era, the Civil War Period, and 20th Century Reform. The course this semester will concentrate on the city in American history. Demographic, economic, social, and political factors as well as patterns of culture which gave shape to the urban experience will receive close attention. Mr. Cox

NON-WESTERN

HI 207 Imperial China Fall

The course will concentrate on the development of Chinese institutions and Chinese thought in the years before the impact of the West. Readings will be in a wide range of primary and secondary sources, including literature as well as more historical materials. Mr. Sands

[HI 210 Modern Middle East History] Offered in 1980-1981

HI 211 African History Fall

The course will examine the origins of African societies in the pre-colonial period, the European intrusion in the 19th century, and the evolution of the modern African states. The emphasis in the latter half of this survey will be on independent Africa. Mr. Spencer

HI 331 Modern East Asia, 1750-1912 Fall

The course will examine the histories of China and Japan during the period in which the traditional societies of those countries under the Ch'ing dynasty and the Tokugawa shogunate first came into contact with a dynamic western expansion which the old institutions could not comprehend. The course will conclude with the republican revolution in China and the Meiji restoration in Japan. Not open to those who have had HI 208 or HI 209. Mr. Clifford

HI 332 Modern East Asia, 1912-1976 Spring

The course will examine the divergent yet closely related experiences of China and Japan in the twentieth century: the disintegration of traditional Chinese society and politics with the fall of the empire, and the attempts at reintegration through revolution, as well as Japan's accomplishments in modernization, her disastrous invasion of China and her recovery since the war. HI 331, while helpful, is not a prerequisite to this course. Not open to those who have had HI 208 or HI 209. Mr. Clifford

[HI 413 Writing and Research, Imperialism]

HI 424 Communism in China Spring

The course will deal with the application of Marxism and the Russian model to China, the role of war in the formation of revolutionary ideology, and the emergence of a new kind of communist society in China since the war. Readings in writings of the leaders as well as secondary sources. Mr. Sands

HI 430 The West in China Fall

The course will examine various aspects of the western experience in China from the arrival of the first Jesuits at the Ming court in the 1580s to the normalization of relations between the United States and the People's Republic of China in 1979. Special attention will be given to the role of imperialism in China, concentrating on the experiences of Britain in the nineteenth century and the United States in the twentieth century, through a study of Sino-Western institutions, the lives of individuals, and of periods of particular stress. Readings will cover a wide range of primary and secondary sources. Mr. Sands

HI 500 Special Research Projects Fall, Spring

(Permission)

Mr. Clifford, Mr. Spencer

*Foundations course.

MATHEMATICS

Professors: Ronald Bielli, Bruce Peterson *Associate Professor:* Michael Olinick (chairman) *Assistant Professors:* John Emerson, Robert Martin (on leave fall term), Thomas Yuster *Instructor:* William Beckmann

The department of Mathematics offers an introduction to a broad spectrum of areas including foundations, algebra, analysis, applied mathematics, computers, geometry, probability and statistics, and topology. Accompanying the growth of applications in many fields has been the enrichment of our own programs by the addition and reorganization of courses in our offerings to accommodate such applications. Our program is designed in the spirit of the liberal arts tradi-

tion to fulfill the needs of three classes of present day students:

1) those who are interested in mathematics but who will not major in a field requiring mathematics,

2) those who need mathematics as an integral part of the chosen major.

3) those who intend to major in mathematics.

The major includes a core sequence of analysis and modern algebra. Each major will choose several electives, such choices being made with the help of an adviser in order best to fulfill the student's particular mathematical needs.

Advanced placement is offered freshmen whose secondary training indicates they can successfully bypass one or more beginning courses.

Mathematics is frequently elected as a joint or double major with other disciplines in the various divisions of the college. Students who wish to pursue the major and to enroll in teacher education as well should consult both a mathematics adviser and the Director of Teacher Education early in their college careers.

Required for the major: MA 112, 113, 200, 201, 202, 302, 401, 402, three electives at the 200 level or above and MA 704 in the senior year.

Majors are strongly urged to take MA 401-402 in their junior year.

In order to be considered for departmental honors a student must take an additional elective at the 400 level. Courses in physics, intermediate logic, philosophy or mathematics and advanced mathematical economics are recommended.

The department offers a coherent set of courses in the area of Computer Science. Although no major in this field is offered, the courses MA 123, 223, 323, 423, (the latter two offered alternate fall semesters) and PH 222 present the substantial portion of a core curriculum in Computer Sciences recommended by the Association for Computing Machinery (ACM).

Because of the wide variety of offerings available at other institutions, any student wishing to substitute a course from another school for any mathematics course must seek approval from the department before registering for the course.

***MA 105 Finite Mathematics: Probability, Statistics and Matrices** Fall

The course will introduce foundational and philosophical aspects of probability at a level which presumes only three years of secondary school mathematics. Some of the major figures in the historical development of probability will be introduced. Topics include conditional probability, Bayes Theorem, Law of Large Numbers, expected value and Markov Chains. Matrix algebra and systems of linear equations will be used in the context of discrete probability. Examples from Biology and the Social Sciences will illustrate concepts and applications of discrete probability. The course provides a foundation for the study of statistics: an introduction to estimation, confidence intervals and hypothesis testing will conclude the course. Staff

***MA 107 Foundations of Mathematics**
Spring

An investigation of the history and nature of mathematical reasoning and thought. Topics will be chosen from the following: elementary logic, sets, counting, the axiomatic approach, the real number system, Euclidean geometry, the discovery and significance of non-Euclidean geometry, crises in the foundations of mathematics.
Staff

MA 112 Mathematical Analysis-I
Fall, Spring

Introductory analytic geometry and calculus; designed for students with four years of secondary school mathematics. The differential calculus of algebraic functions and applications; the indefinite and definite integral, area under a curve. Staff

MA 113 Mathematical Analysis-II
Fall, Spring

A continuation of MA 112; may be elected by freshmen who have had an introduction to analytic geometry and calculus in secondary school. The calculus of the elementary transcendental functions. Applications of integration. Methods of antidifferentiation and elementary differential equations. Polar coordinates. Improper integrals. Sequences and series. (MA 112 or permission.) Staff

MA 123 Computer Programming I
Winter

An introduction to problem solving methods and algorithm development using BASIC. The elements of BASIC discussed include numeric and string data types, expressions, arrays, loops, and text files. Algorithm

development stresses flowcharting, stepwise refinement, and methods for debugging programs. An overview of computer systems and applications is an integral part of the course. The course is intended to provide a brief intensive introduction to computers and programming, as well as provide an entry point for further study of computer science. This course is offered only during winter term in order to take full advantage of the opportunity for intensive study afforded by winter term. A substantial portion of each student's time in the course will be spent writing computer programs. (MA 105, or permission.)
Mr. Krupp

MA 200 Linear Algebra Fall, Spring
Matrices and systems of linear equations. The vector space R^3 and other real vector spaces. Independence and dimension. Scalar products and orthogonality. Linear transformations and matrix representations. Eigenvalues and similarity. Determinants. The inverse of a matrix and Cramer's Rule. (MA 112 or permission.) Staff

MA 201 Mathematical Analysis-III Fall, Spring
The calculus of functions of more than one variable. Introductory vector analysis, analytic geometry of three dimensions, partial differentiation, multiple integration and applications. (MA 113 and MA 200 or permission. MA 200 may be taken simultaneously.)
Mr. Bielli

MA 202 Mathematical Analysis-IV Spring
Sequences and series of constants. Sequences and series of functions, power series, Taylor series. Differential equations, first order methods, linear equations, series solutions, systems of equations. Vector fields, divergence and curl. Line and surface integrals, Green's and Stokes' Theorems. (MA 113 and MA 200 or permission. MA 200 may be taken simultaneously.) Mr. Martin

MA 220 Graph Theory and Combinatorics Fall
Topics from combinatorial mathematics including graphs, enumeration problems, planar graphs, Euler paths and the Konigsberg Bridge Problem, Hamiltonian graphs, the four color conjecture, tilings and tesselations of the plane, Fibonacci sequences, applications. (MA 113) Mr. Peterson

[MA 222 Convex Figures]

MA 223 Computer Programming II Spring
A second course in computer programming emphasizing programming style and concepts of structured programming. Topics include, data representation, procedures, recursion, sequential and linked data allocation, and sequential and relative files. Applications in the areas of numerical computing, word processing, and data processing will be studied in detail. The PASCAL Language is introduced and used throughout the course. (MA 123 or permission.) Mr. Krupp

[*MA 227 Set Theory]

MA 302 Abstract Algebra-I Spring
Groups, subgroups, Lagrange's theorem, homomorphisms, normal subgroups and quotient groups. Rings and ideals, integral domains and fields. The field of quotients of a domain. The ring of polynomials over a domain. Euclidean domains, principle ideal domains, unique factorization. Factorization in a polynomial ring. Modules and vector spaces over arbitrary fields. (MA 200, or permission.)
Staff

MA 310 Probability Fall
An introduction to the concepts of probability and their applications, covering both discrete and continuous random variables. Probability spaces, elementary combinatorial analysis, densities and distributions, conditional probabilities, independence, expectation, variance, Weak Law of Large Numbers and Central Limit Theorem. Numerous applications. (MA 201 is a corequisite, but students lacking this course should consult the instructor.) Mr. Emerson

MA 311 Statistics Spring
An introduction to the mathematical methods of statistical inference. Topics will include: loss function, risk function, parametric and nonparametric problems, estimation, Baysian statistics, efficiency and the Neyman — Pearson Lemma. Classical tests within the normal theory such as F-test, t-test, and chi-square test will also be considered. Students preparing to take Statistics should note that a linear algebra background (MA 200) is helpful in using linear statistical models. There will be some emphasis on applications to problems of other disciplines. (MA 310.) Mr. Emerson

[MA 315 Mathematical Models in the Social and Management Sciences]

[MA 318 Selected Topics in Operations Research]

[MA 321 Elementary Number Theory]

[MA 323 Computer Systems and Assembly Language Programming]

MA 325 Data Structures and File Processing Fall
A study of complex data structures with particular emphasis on their application to file structures and processing methods. Basic properties of linked lists and tree structures are developed at the beginning of the course. These structures are then examined for their applicability to various file organization and access methods, e.g., indexed, inverted list, multilist, networks, and hierarchial. The relationship between these concepts and the overall operation of data base management systems will also be discussed. (MA 223)
Mr. Krupp

MA 401 Advanced Calculus Fall
Further topics in the calculus and real analysis. Fundamental concepts of real function theory, divergence and curl, line integrals, Green's theorem, the Stieltjes integral, infinite series, power series, Fourier series, improper integrals. (MA 201 and MA 202.) Staff

MA 402 Advanced Calculus Spring
Further topics in the calculus and real analysis. A continuation of MA 401.
Mr. Martin

MA 403 Abstract Algebra-II Fall
The theory of fields. Extension fields, algebraic and transcendental elements. Further topics from abstract algebra chosen from among: finite fields, Galois theory, advanced linear algebra including duality, quadratic forms, and the Jordan form of a matrix, skew fields, the Wedderburn theorem, algebraic geometry, category theory, lattices and boolean algebras. (MA 302.) Mr. Olinick

MA 411 Elementary Topology Spring
An introduction to the concepts of topology. Theory of sets, topology of the real line, continuous functions and homeomorphisms, compactness, connectedness, metric and function spaces, selected topics from the topology of Euclidean space. (MA 201 or permission.) Mr. Olinick

MA 421 Modern Geometry Spring
This course extends familiar Euclidean geometry in several directions, Non-metric properties are studied via convex bodies, the theorems of Helly and Radon and the isoperimetric problem. Projective geometry is developed by extension of the Euclidean plane and finite projective planes studied from the suggested axiomatization. Duality and the classical theorems of Pappus and Desargues are discussed. Synthetic and algebraic methods are used throughout and dimensional generalizations are used throughout.
Mr. Peterson

[MA 431 Complex Analysis]

MA 500 Advanced Study Fall, Spring
Individual study for qualified students in more advanced topics in algebra, number theory, real or complex analysis, topology. Particulary adapted for those who enter with advanced standing. (Permission.) Staff

MA 704 Senior Seminar Fall, Spring
Each student is required to complete and present a major paper on a topic of his choosing. During the whole academic year, each student is expected to attend a series of lectures designed to introduce and integrate areas of mathematics not covered in the previous three years. Staff

*Foundations Course.

See also Division of Natural Sciences.

MUSIC

Professors: Emory Fanning (chairman), George Todd (on leave) *Assistant Professors:* Dale Cockrell, Dana Holby *Instructor:* James Griesheimer *Visiting Instructor:* Janet Gilbert

The Music department offers courses in theory, history, performance and dance. Majors with emphasis in theory, history or performance are required to take MU 309-310, MU 220-221, MU 306-307, MU 390, three upper-level elective courses plus one or two units of Senior Work. Majors with emphasis in dance must complete six dance courses, MU 109 or its equivalent, MU 220-221, three other courses within the department, and one or two semesters of Senior Work. All 300 level music courses (except MU 360-361) assume both ability to read music

and rudimentary theoretical knowledge. (With prior departmental permission, a major with emphasis in dance may substitute one or more dance-related courses from other departments for a music elective.) In addition to the curricular requirements, majors are expected to participate for four semesters in departmental ensembles: Choir, Orchestra, Dance or Chamber Ensembles.

All majors must demonstrate at the piano the ability to read a 4-part hymn setting at sight at a steady tempo. The examination will be administered first at the beginning of the junior year and must have been successfully completed before the beginning of the senior year. Reading knowledge of a foreign language is required of majors concentrating in music history. German, French, or Italian is recommended though another language may be substituted with departmental approval.

***MU 101 Introduction to Musical Styles** Fall

A study of musical life and literature from antiquity through the 20th century with an emphasis on major styles and their essential elements. The course aims to develop in students the minimal listening skills necessary for differentiating among styles and composers. Elementary principles of notation useful in following simple scores to be explained in class. No previous experience assumed.

Mr. Griesheimer

***MU 109 Rudiments of the Musical Language** Spring

This introduction to the materials of music assumes no prior experience. A grounding in the rudiments of notation, melody, harmony, rhythm, and form; intensive listening and analysis of several masterworks. Ms. Gilbert

MU 140 Introduction to Dance Fall, Spring

An introduction to dance on the beginning technical levels of ballet, modern, jazz and improvisation. Observation and participation are involved through dance performances, classes, dance criticism and films. (The prerequisite is one six-week session of the Basics of Dance for Physical Education or permission.) Ms. Holby

MU 201 Electronic Music Fall

MU 201 is a course in music design and composition for the student with or without musical skills. Using electronically-generated and concrete sounds, students are taught use of tape recorders, the Moog synthesizer and the other equipment in the College's Electronic Music Studio and guided in the creation of original works using music from the contemporary repertoire as models.

Ms. Gilbert

MU 205 Performance Lab Fall, Spring

Credit may be conferred for performance in faculty-supervised ensembles, one unit of such credit to accrue over three terms. At the end of each semester, certificates of credit may be issued by supervising faculty, credit to be based on attendance and quality of performance. A student may register for MU 205 during the term of completion of credit requirement, i.e. during the semester for which he earns the third certificate. No more than one certificate may be earned in any one semester. Certificates may be earned only for work during the spring and fall terms.

Mr. Fanning, Mr. Griesheimer

MU 209 Theory Fall

MU 209 assumes basic notational skills (MU 109, or its equivalent) and minimal keyboard sight reading ability. The course exercises the student in the manipulation of diatonic musical materials; modes, triads and their inversions, melody construction, simple harmonizations with primary and secondary triads. Three ear-training labs per week in addition to lectures. Ms. Gilbert

MU 210 Theory Spring

Continuation of MU 209. Four-part harmonization through diminished seventh, augmented sixth and neapolitan chords; modulation and use of altered chords; construction of small original compositions. Ear-training labs continued. Ms. Gilbert

[MU 215 The History of Jazz]

MU 220 Survey of Music History Fall

A survey of music history and literature from ancient Greece to the death of J.S. Bach. Emphasis will be placed on aural analysis of styles and in building familiarity with the repertory. Ability to read music and rudimentary theoretical knowledge are assumed.

Mr. Cockrell

MU 221 Survey of Music History (MU 221 may be taken without MU 220) Spring

A survey of music history and literature

from Haydn through the 20th Century. Emphasis will be placed on aural analysis of styles and on building familiarity with the standard repertory. Ability to read music and rudimentary theoretical knowledge are assumed. Mr. Cockrell

MU 260 Intermediate Dance Technique
Fall, Spring

This course offers intermediate level work in ballet, modern and jazz techniques. Emphasis will be placed on developing the creative instincts through improvisation and composition; and increasing control over movement. There will be performing opportunities as well as films of styles and techniques. (Permission.) Ms. Holby

MU 261 Intermediate Dance Technique
Fall, Spring

Continuation of MU 260. (Permission.)
Ms. Holby

MU 270 Opera Fall

A course treating, chronologically, opera as a changing musical/dramatic form that reflects important cultural, social, and historical conditions of the Western world from the sixteenth century to the present.
Mr. Cockrell

MU 290 Fundamentals of Conducting
Fall

The basic conducting patterns in simple and compound rhythms and their relation to musical line and shape. Score preparation, rehearsal techniques and practical conducting experience. (Permission) Mr. Fanning

MU 306 Performance Class Fall

The focus of this course is the development of musical understanding and expression through active participation in music-making. The course serves both as a master class and as a forum for public performance by advanced students. (Permission.)
Mr. Fanning

MU 307 Performance Class Spring

Continuation of MU 306. Mr. Fanning, Mr. Griesheimer

MU 309 Analysis Fall

The study of individual works and genres for advanced students. Analysis will be done through readings, score study and compositional exercises. (Permission.) Ms. Gilbert

MU 310 Analysis Spring

Continuation of MU 309. Ms. Gilbert

[MU 312 Composition]

MU 322 Music in the Baroque Era
Spring

A study of musical life and literature in Europe from 1600 to the death of Bach. Among the major topics: Giovanni Gabrieli and the Venetian legacy; origins and development of opera in Italy; Lully and French music under Louis XIV; English music during the Commonwealth and Restoration; the music of the Reformation. The life and works of G.F. Handel and J.S. Bach.
Mr. Griesheimer

[MU 323 Music in the Classical Period]

MU 324 Music in the Romantic Era
Spring

The study of nineteenth century music, from Beethoven to Debussy, with emphasis on the important forms, the rise of national styles, the emergence of the virtuoso and the "hero-musician," program music. Ability to read music and rudimentary theoretical knowledge are assumed. Mr. Cockrell

MU 325 Music in the 20th Century
Spring

The development of music from Debussy to the present, particularly the music of Debussy, Mahler, Stravinsky, Schoenberg, Webern, Berg, Bartok, Hindemith, Cage, Joplin, Davidovsky and Babbitt; impressionism, emergence of twelve-tone music and serialism, jazz, aleatoric music, the role of the electronic studio and computer in contemporary composition. Mr. Cockrell

[MU 330 Symphonic Literature]

[MU 341 J.S. Bach]

MU 360 Advanced Dance Technique
Fall, Spring

In this course the dancer will continue with daily work in modern, ballet and jazz techniques supplemented by improvisation, films and use of sophisticated musical accompaniments, perfecting a sound dance technique. Performance is expected. (Permission.)
Ms. Holby

MU 361 Advanced Dance Technique
Fall, Spring

Continuation of MU 360. (Permission.)
Ms. Holby

MU 390 Junior Seminar in Music History Spring

An introduction to the use of research tools and methods in musicology in preparation for the senior work. 1) Primary and secondary sources; 2) form of the research document; 3) practical projects in early notation, textual criticism, and bibliography to be announced. Mr. Griesheimer

MU 500 Independent Study
(Permission.)

MU 704 Senior Work

PERFORMANCE STUDIES

Students may take Applied Music for credit or as an extracurricular activity.

Undergraduates interested in performance for academic credit see descriptions for MU 205, MU 306, MU 307.

While private study is not required for participation in ensembles, it is strongly encouraged.

Students who wish private instruction in piano, organ, cello, violin, viola, flute, recorder, voice or oboe should enroll with the Department before registration. Inasmuch as spaces are limited, auditions may be required.

Fees are to be paid to the Cashier's Office upon receipt of a bill at the beginning of each term. No rebate is allowed for lessons missed except in the case of continued illness. Performance studies consist of one lesson weekly; fee $120 per semester for all instruments except recorder in consort which is $75 per semester. The fee for private instruction during Winter Term is $48.

For those students accepted for private instruction, the applied fee is waived if they are enrolled in MU 306, MU 307, and 700 and 500 courses in Applied Music.

Private instruction in piano Mr. Viviano
Ms. Fanning
Private instruction in organ Mr. Fanning
Private instruction in cello Staff
Private instruction in violin and viola Staff
Private instruction in flute Staff
Private instruction in recorder or recorder consort classes Mr. Skrobela
Private instruction in voice Mr. Dalton
Private instruction in oboe Mr. Griesheimer

The College will assist the student as far as possible in securing adequate instruction when not provided by the regular staff.

Music Library. The Christian A. Johnson music library contains several thousand records, scores, books, and a collection of chamber music. Listening facilities in the library are available to anyone from the college community.

Practice facilities. Practice rooms with pianos are available for individual and group rehearsal. Organs: Walcker (1969) mechanical action, 15 ranks; and Gres-Miles (1970) 48 ranks. Application should be made to the secretary of the music department.

College Orchestra. Weekly rehearsals leading to the performance of music from all periods. Instrumentalists may arrange for an audition through the department secretary.
Mr. Griesheimer

Chamber Ensembles. Coaching in chamber music for standard vocal and instrumental combinations: madrigal group, string quartet, woodwind quintet, etc., is also available.
Mr. Fanning, Mr. Griesheimer

College Choir. The College Choir sings at chapel services and special concerts on and off campus. Audition required, open to all students without prerequisite.
Mr. Fanning

Recitals. Regularly scheduled recitals and lectures are open to the public.

*Foundations Course

See also Division of Humanities.

PROGRAM IN NORTHERN STUDIES

The Northern Studies Program was initiated in 1977. The many advantages in terms of personnel and geographic location which Middlebury has with respect to Northern Studies provide students with a strong multidisciplinary course of study in this rapidly developing field. The goal of the program is the application of traditional scientific disciplines, specifically biology, geology, and geography, to an understanding of the northern environment.

The Northern Studies Program is a cooperative effort between Middlebury College and The Center for Northern Studies, a private, non-profit research and educational institution located in Wolcott, Vermont, about 70 miles northeast of Middlebury. The

Center has field facilities in environmental situations that closely approximate those of the far north of Canada and Alaska. Thus, the Northern Studies Program is able to emphasize the field aspects of northern studies in a manner that is not possible in most other areas of the continental United States. The Center also carries on an active research program in Alaska and other northern areas, and Northern Studies majors may sometimes participate in this research. Center for Northern Studies senior personnel are adjunct faculty members at Middlebury College and are intensively involved in the entire program.

Requirements for a Northern Studies Major. Students majoring in Northern Studies will normally follow one of three "major tracks": Biology, Geology, or Geography, and will take five or six courses within the appropriate cooperating department. The following is a partial list of required courses within a particular discipline which should be taken prior to the junior year.

Biology:

BI 125	**Introduction to Biological Principles**
BI 190	**General Ecology**
BI 203	**Botany**
BI 250	**Organelles and Cells**
BI 311	**Ecosystem Analysis**

Geology:

GL 102	**Dynamic Earth**
GL 112	**Environmental Geology**
GL 172	**Global Tectonics**
GL 201	**Bedrock Geology of Vermont**
GL 252	**Geomorphic Processes**

Geography:

GG 100	**The Geographic Perspective**
GG 201	**Techniques of Environmental Analysis**
GG 202	**Cartography and Graphics**
GG 250	**Physical Earth Processes**
GG 354	**Weather and Climate**

An additional list of recommended courses in Chemistry, Mathematics, and Physics may be obtained from faculty members. Other courses in these or other departments may be accepted, at the discretion of the faculty.

During the junior year, majors will spend the fall semester at the Center for Northern Studies, taking the four courses described below. The Winter Ecology course, also conducted at the Center, will normally be taken in the junior year winter term. During the junior fall, the necessary Middlebury courses to complete the major will be decided upon, in consultation with the appropriate Middlebury and Center faculty members. Also, planning will begin for the student's senior thesis work.

Students will take two or three units of senior thesis work (NE 700). The senior thesis projects will normally be an outgrowth of the student's "major track" selection and would be jointly supervised by representatives of both the Northern Studies Program and the participating department. No more than three units of research or thesis work can be applied toward the Middlebury degree.

Research for the senior thesis (one credit) may be carried out preferably during the summer following the junior year, or possibly during the fall of the senior year. This research may be done at Middlebury or the Center. A proposed summer field course in Alaska may involve one or more senior thesis students.

During the spring semester of the senior year, majors may elect to prepare their senior thesis while participating in a semester in residence at the Center. Two credits of thesis work, in addition to two credits from the courses described below under Spring Semester in Residence, would comprise the 4-credit semester.

A limit of 9 regular term courses and 1 winter term course can be accepted from the Center for Northern Studies toward the Middlebury degree. This limitation includes any research or thesis work undertaken at Wolcott.

A non-credit, Northern Studies seminar series is conducted at Middlebury during the spring semester to provide continuing contact for students who have taken the fall semester in residence at the Center, and information about the program for others.

While there is no language requirement for the Northern Studies major, students who have serious career plans in the North are strongly encouraged to develop a reading knowledge of Russian.

NE 151 Introduction to the Polar Environments Spring

An introduction to the physical, biological, and historical characteristics of the polar world. Emphasis on climate, glaciation and other physical features of the polar environ-

ment, ecosystems of the boreal forest, tundra, antarctic, and polar seas, the environmental history of polar regions in relation to geologic times, and the relationships between the polar regions and pre-industrial and modern human societies. Not open to freshmen.

Mr. Young

Fall Semester in Residence At The Center For Northern Studies

This is a semester-long program which is the equivalent of four normal Middlebury courses. The semester begins with a two-week field trip to western Newfoundland or northern Québec, where students are introduced first-hand to northern environments and begin mastering techniques of ecosystem analysis.

NE 300 Boreal Forest and Tundra Ecosystems

A survey of northern and high altitude boreal forest and tundra ecosystems: relations to climate, soils and permafrost; dynamic and successional relationships; functioning with respect to energy flow and nutrient cycling. Taught through lectures, readings, and local field problems. The field problems emphasize the application of various methods and techniques used to study these ecosystems, such as sampling, classification and mapping. Data is collected as a group, with each student then interpreting the results of the lab in the format of a scientific paper. Mr. Racine

NE 310 Quaternary Studies

A detailed consideration of northern environments from an historical-geological perspective. Lecture/lab material includes such subjects as glacial geomorphology, dating techniques, palynology, plant and animal migrations and extinctions, and early man in the North. A strong emphasis is placed on the methods of reconstructing past environments through an imaginative synthesis of information from diverse sources of data.

Mr. Starling

NE 320 Boreal Biota

A general knowledge of the composition of the flora and fauna of the polar regions is a necessity for carrying out the other work undertaken in the Semester in Residence program. This course begins with a general consideration of the more important species of animals and plants which will be encountered in regular field work, with emphasis on field identification. The remainder of the course will include a taxonomic and evolutionary approach to the major plant and animal groups, with continuing field and laboratory work on the collection, identification, and processing of specimens.

Mr. Young

NE 330 Man in the North

This course traces the history of how Man, the tropical animal, has rather successfully colonized and utilized much of the cold environment of the Northern Hemisphere. The cultural history of the Northlands will be examined, including exploration and settlement patterns, subsistence and commercial economics, and a brief study of major air and water circulations. This will be followed by a consideration, through lectures and field trials of basic skills that have been found useful by those travelling far from main population centers. Mr. Osgood

NE 340 Seminar in Modern Polar Issues

Each student chooses, in consultation with a faculty member, a topic for discussion which is relevant to the present and future of the polar regions and human interaction with them. Students give a presentation of their topic and conduct a group discussion. All students, faculty and staff participate in each seminar discussion and do the assigned readings. Finally, students prepare a detailed paper on their topic in the light of input from the discussion. Staff

NE 350 Winter Ecology

The special physical characteristics of the winter environment and the physiological and behavioral adaptations of terrestrial and aquatic organisms to seasonability, extreme cold, and snow and ice conditions.

Mr. Marchand

Spring Semester in Residence At The Center For Northern Studies

NE 400 Systematic Botany

This course follows closely along traditional lines of plant taxonomy courses. Its central theme is the taxonomic and evolutionary relationships of the vascular plants and the systems, concepts, and techniques used to classify and identify these plants. Some consideration will also be given to multicellular non-vascular plants. Approximately one half of the lecture time will be devoted to a consideration of theoretical ma-

terial, including species concepts, theoretical concepts of taxonomic and evolutionary relationships, cytogenetics, and phytogeography. The remainder of the lecture time and all laboratory and field trip time will be devoted to learning to recognize the characteristic features of the major plant groups and to the collection and processing of botanical specimens. Much of the laboratory work will be based on the examination and dissection of living, frozen or dried plant material. Although the course will generally emphasize those groups of plants which are important in the northern environment, important members of the temperate and tropical flora and their relationships will also be given consideration. Mr. Young

NE 410 Disturbance Ecology of Northern Ecosystems

This course examines the responses of species populations and ecosystems to natural and man-caused disturbances. Emphasis will be placed on vegetation change, successional trends, population cycles, and recovery and revegetation in northern ecosystems.

Mr. Racine

NE 420 Palaeoecology

In 1978 72% of Vermont was forested, in the 1870's 82% was open land, whereas in the 1670's it was primaeval forest. How does the present forest compare with the primaeval in terms of species composition and distribution, not only in Vermont but also in the rest of North America and northwest Europe in general? How can we reconstruct the changing patterns of species and biome distributions since the retreat of the Wisconsin Ice and determine the environment within which man has evolved and become "civilized" over the last 12,000 years? The course will stress the sources of evidence and methods used to extract the information which enables such reconstructions.

Mr. Starling

NE 430 Seminar in Northern Issues

The purpose of this seminar series is to provide students with a perspective on how their chosen field of specialization (biology, geology, geography) interacts with northern studies, sensu lato, and to help them prepare for career decisions. Speakers will be invited from industry, manufacturing, government, Native corporations, and other academic institutions to come to the Center and present their views on the roles which they see their particular interests playing in the present and/or future of the North.
1 credit.

NE 500 Independent Study

NE 700 Senior Thesis Preparation

PHILOSOPHY

Professor: Victor Nuovo (on leave spring term) *Associate Professors:* Lynne Baker (on leave), Stanley Bates (Chairman) *Assistant Professors:* Jan Wald (on leave) Neil McDonell *Visiting Instructor:* Michele LaRusch

Non-majors: Most Philosophy department courses are open to students who are not majors and who have had little or no previous work in philosophy. HM 150, HM 160, and PA 170 are the general introductions to the field and are open to students in all classes. Courses in the 200 range are introductions to specialized areas of philosophical study which do not require particular competences, though students who have done work in education, religion or the arts will find their studies in those areas of assistance. Except as noted, 300 level courses are generally open to students but they suppose a higher level of sophistication than the 200 level courses and are not normally open to freshmen. 400 level courses are normally open only to majors. Non-majors with a previous background in philosophy may elect a 400 course but they should consult with the instructor.

Major program: Majors will elect ten courses in the department. (No more than two courses from the group HM 150, HM 160, and PA 170 can count toward the major requirement.) All majors are strongly encouraged to take PA 218 and PA 223. Cognate courses, particularly in the areas of political science and religion, may be substituted for two courses with prior permission. Majors must elect: one course in Ethics and Social Philosophy (PA 300-320); one course in Philosophy of Science and Theory of Knowledge (PA 350-370); one course in Studies in the History of Philosophy (PA 400-420) and the Senior Seminar (2 course units) in Contemporary Philosophy.

Honors candidates will do a 500 project in the Winter Term of Senior Year and may substitute under exceptional circumstances a

second term of 500 work for the second term of the Senior Seminar. Students must have a B average in all work in the department during their junior year and first term of senior year to be permitted to undertake an honors project. 500 projects are open only to philosophy majors and they must have attained an average of B in all course work within the department.

***HM 150 Foundation of the Western Intellectual Traditions: Antiquity to the Reformation** Fall

Through a study of philosophical and theological texts we shall attempt to comprehend the basic questions and methods of Western intellectual traditions. We shall be concerned with such topics as the nature of human knowledge, the existence of God, the possibility of human freedom, and man's place in the universe. This course is not a comprehensive history of ideas, but a study of great works in their own context and in ours. Selections from the Bible, Sophocles, Plato, Aristotle, Epicurus, Anselm, Luther or Calvin, Montaigne and Descartes. One section of this course will fulfill the freshman writing requirement.

Mr. Bates, Mr. Nuovo and Staff

[*HM 160 The Origins of Modern Thought: Science, Religion, Society]

PA 170 Philosophical Problems Spring

An investigation through lectures, debates, readings and discussion of some main problems of philosophy: the nature of philosophical thinking, meaning and truth, the relationship of mind and body, freedom and determinism and moral responsibility, the possibility and kinds of knowledge. This course has been designed as an introductory course for students who have studied little or no philosophy. Mr. Bates, Mr. McDonell and Staff

[PA 210 Philosophy of Education Fall

PA 213 Philosophy of Religion Fall

An investigation of the philosophical problems raised by the claims of religious belief: the existence and attributes of God, divine omnipotence and human freedom, the problem of evil, immortality and eschatology.

Mr. Nuovo

PA 218 Introduction to Modern Logic Fall

A study of the principles of correct reasoning. Skills in both informal and formal logic will be developed. Topics in informal logic will include appraisal of arguments and fallacies of relevance and of ambiguity. Topics in formal logic will include syllogistic logic, propositional logic and quantification theory.

Staff

PA 222 American Philosophy Fall

A central concern of American philosophers has been to develop a framework within which the full range of human activities and aspirations can be integrated, explored, appreciated, and critically evaluated. Within this framework, traditional dichotomies are challenged and new problems posed. We shall consider how this project arises and develops in the work of Peirce, James, Dewey, and Goodman. Questions from several branches of philosophy will be discussed.

Mr. McDonell

[PA 223 Introduction to Contemporary Philosophy]

[PA 224 Foundations of Contemporary Analytic Philosophy]

[PA 231 Philosophy of History]

PA 223 Aesthetics Fall

Contemporary and historical readings will be used to examine problems in the philosophy of art. There will be exploration of what is a work of art and of meaning and truth in various of the arts. Attention will be given to questions of aesthetic judgment and of aesthetic value as well. Some prior acquaintance with philosophy or literature or the arts is recommended. Mr. Bates

[PA 236 Philosophy of Mathematics]

[PA 238 Metaphysics]

PA 270 Ultimate Questions, An Introductory Course in Philosophy for Seniors Fall

This course presupposes that seniors, because of their greater knowledge and maturity, will be able to proceed more rapidly to deeper levels of philosophical understanding. Through readings, lectures and discussion the following topics will be investigated: the nature of knowledge; lan-

guage and reality; value and obligation in art and morality; the nature of existence; the philosophical life and further reflections on the meaning of human life. The course is open only to seniors who have not yet taken any course in philosophy. Mr. Nuovo

ETHICS AND SOCIAL PHILOSOPHY

Courses numbered in the range PA 300-320 fall in the general area of ethics, social philosophy and theory of value. Offerings may change from time to time and courses will be alternated as indicated.

[PA 305 Human Nature and Ethics]
PA 307 Twentieth Century Ethics
Spring

This course will concentrate on problems of meaning, and justification, in ethics by tracing the development of twentieth century analytical ethics from the intuitionism of G. E. Moore and W. D. Ross, through the emotive theory of A. J. Ayer and C. L. Stevenson, the precriptivist theory of R. M. Hare, to the renewed naturalism of John Rawls. There will also be a discussion of existentialism and ethical theory, and some discussion of contemporary moral problems. Mr. Bates

PHILOSOPHY OF SCIENCE AND THEORY OF KNOWLEDGE

Courses numbered in the range PA 350-370 fall in the general area of theory of knowledge or epistemology. Problems of knowledge, proof and perception have been particularly central to philosophical concerns in the modern period. Students considering graduate work in philosophy should elect courses in this area. Offerings may change from time to time and courses will be alternated as indicated.

PA 351 Theory of Knowledge Fall

What role do perception, intuition, imagination, emotion, and action play in achieving knowledge? Why have philosophers been skeptical about the prospects of knowledge? How, if at all, can we achieve objectivity? Is there knowledge outside the sciences? What is the nature of representation? We shall investigate some work on these problems by a number of major philosphers, past and present. Mr. McDonell

PA 352 Philosophy of Mind Spring

How do I establish my identity as a person? What does this identity involve? How much freedom can I achieve? What are the nature and consequences of this freedom? We shall consider how these questions have been posed and addressed by some major philosophers of each period, including philosophers (and psychologists) from this century.
Mr. McDonell

PA 353 Philosophy of Science Spring

This course will be an introduction to contemporary views on the growth of scientific knowledge. Questions to be explored include the following: How is it that science progresses? To what extent are the processes of development rational ones? What is the relation between a new theory and preceding ones? Answers to such questions will be illustrated by episodes in the history of science. Emphasis will be on recent work by Kuhn, Feyerabend and their critics. Staff

PA 354 Philosophy of Language
Spring

This course will be concerned with recent philosophical theories about the nature of language and meaning. The philosophical significance of recent trends in linguistics will also be considered. Staff

[PA 354 Philosophy of Language]

[PA 360 Intermediate Logic]

STUDIES IN THE HISTORY OF PHILOSOPHY

Courses numbered in the range PA 400-420 cover major figures in philosophy or major movements, e.g., empiricism, rationalism, idealism, existentialism. These courses are recommended to students planning to pursue graduate work in philosophy and should normally be elected only by students who have had previous courses in philosophy.

[PA 247 Ancient Greek Philosophy]

[PA 403 Three British Empiricists: Locke, Berkeley and Hume]

[PA 406 Kant]

PA 500 Research in Philosophy
Fall, Spring
(Open only to majors.) Staff

PA 704 Senior Seminar: Contemporary Philosophy
Fall, Spring

All philosophy majors take two terms of the senior seminar. The seminar is devoted to the study of contemporary figures or movements in philosophy. Students will prepare periodic research papers utilizing primary sources and journal literature. (Students who are not philosophy majors may enter the seminars by permission.) Staff

PHYSICAL EDUCATION AND ATHLETICS

The Physical Education Program concentrates on life-time sports so that all students leave Middlebury with exposure to sports or recreational activities in which they have developed a degree of skill and interest which will be an asset to them in later years. *The program consists of a pool test (or a course in beginning swimming) and five seasons in essentially life-time sports.* There is a credit maximum of three seasons for participation in intercollegiates, performing groups, club teams approved as independent programs, or instructional team sports. The department schedules two seasons in each of the two college terms and one season in the college winter term.

Students may complete their Physical Education Program by utilizing any of the following options and opportunities:

a. Instructional course program.
b. Approved independent programs.
c. Exemption program.
d. Any combination of the above, including a credit maximum of three seasons for participation in intercollegiates, performing groups or instructional team sports.

The pool test or a beginning swimming course is required of all students. The test consists of jumping into the deep end of the pool and staying afloat for five minutes without assistance of any kind. Any method (floating, treading, swimming, survival floating) may be used. Beginners and those uncertain of their ability to pass this test should register for an instructional course in swimming. Current American Red Cross Advanced Life Saving or Water Safety Instructor cards (show cards at the Field House office) are accepted in lieu of the pool test.

The Physical Education Program may be completed at any time or by any of the above options convenient to the student during his/her four years at Middlebury—except that three exemptions or three seasons credit should be attained by the end of the junior year to ensure completion of the program. Exemption tests and pool tests will not be given to seniors in their senior year. *The entire program may be completed by demonstrating strong competency at or above the intermediate level in three life-time activities offered in the exemption program, provided the pool test has also been passed.* The passing of one or two exemptions provides the student with one or two seasons credit toward completion of the entire program. Students may take no more than three instructional courses in the same activity nor receive more than three seasons credit for the same activity (one of which may be an exemption credit).

All registrations for instructional classes in physical education are held in the Field House office, and registrations are held prior to the start of each of the five seasons during the college year. Registration is on a first come-first served basis. There are two exemption periods during the year (preceding the fall and winter II seasons) and students should sign up for test appointments at the Field House office prior to the announced exemption periods. Students should consult the appropriate department member concerning participation in intercollegiates and performing groups. Application forms for independent programs are available at the office in the Field House and are returnable, for consideration, to the department chairman's office normally one week prior to the start of each physical education registration period. Students who wish to elect courses (i.e., the student does not need the course for physical education credit) should register with the department for the appropriate season and they will be scheduled for classes on a space available basis.

Physical Education Program (Fall, Winter I, Winter Program Term, Winter II, and Spring Seasons) Specific seasonal course offerings are available at the time of registration and prior to the start of each season.
Staff

Physical Education Instructional Course Registration Periods: (9:00-12:00 and 1:00-4:00 at the Field House office).

Registration Dates	Season
September 10, 11, 12	Fall
October 16, 17, 18	Winter I
November 27, 28, 29	Winter Program Term
February 18, 19, 20	Winter II
March 25, 26, 27	Spring

Season Dates
September 17-October 27, 1979
October 29-December 8, 1979
January 9-February 8, 1980
February 25-April 5, 1980
April 14-May 17, 1980

Exemption Periods and Tests: Advance sign-ups for test appointments are recommended and requested. Please sign-up at the Field House Office from 9-12:00 or 1-4:00 unless otherwise stated.

Fall Tests (September 10, 11, 12, 13)— Sign-up dates are September 7, 10, and 11: Archery, Badminton, Bowling (Test Fee $.90), Dance, Golf, Platform Tennis, Squash, Swimming, Tennis and the Pool Test.

Winter Tests (February 18, 19, 20, 21)— Sign-up dates are January 29, 30, 31 and February 18: Alpine Skiing, Badminton, Bowling (Test Fee $.90), Dance, Figure Skating, Ice Skating, Platform Tennis, Ski Touring, Swimming, Squash, Tennis and the Pool Test.

PHYSICS

Professor: Robert Gould (chairman) *Associate Professor:* P. Frank Winkler (on leave) *Assistant Professors:* Patrick Cooney, Richard Wolfson *Instructor:* Robert Boyle

The course offerings in the department of Physics are designed to fill the needs of a liberal arts curriculum. The offerings are suitable for three categories of students: (1) those who do not intend to specialize in science, but have an interest in science; (2) those who desire a basic introduction to Physics as an adjunct to a major in another science; and (3) those who major in Physics. Students normally major in Physics as preparation for graduate study in the sciences or engineering, as preparation for a professional school, or as preparation for teaching. Students planning to major in Physics should start no later than their sophomore year and preferably in their freshman year.

Students intending to major in Physics (category (3) above) will find that the department offers a full complement of both theoretical and experimental courses. *The minimum requirements for a major in Physics* are the introductory sequence to Physics, PH 109, PH 110, PH 210, PH 212, plus five elective Physics courses, a senior program and MA 112, MA 113 and MA 201. The course PH 212 is a prerequisite for all 300 and 400 level courses in Physics. The senior program consists of a three-unit thesis and general examination. Students doing practice teaching under the Teacher Education Program may, with permission, take only two units of senior thesis. Specific courses to be taken by a major are determined in consultation with a department adviser. The department offers a program for majors of Environmental Studies with emphasis in Physics. (See Environmental Studies.)

Courses in the numbering sequence PH 111 through PH 199 are designed for students not majoring in the natural sciences and so do not count toward satisfying the Physics major.

The department offers for nonscience majors, a fall term course, PH 155, *An Introduction to the Universe,* and two spring term courses, PH 101, *The Nature of Things; Physical Reality and Human Thought* (a Foundations course), and PH 145, *Electronics for the Intimidated.* See below for descriptions of these courses. We also offer courses in electronics and in astronomy and astrophysics for students who have had some introductory physics.

***PH 101 The Nature of Things: Physical Reality and Human Thought** Spring

Designed for non-science students, this course will explore major ideas which shape our present understanding of the physical universe. Relativity theory, the quantum principle, matter and antimatter, and the origin of the universe will be considered for their impact on broader realms of human thought. This philosophical perspective will be augmented by development of physical ideas in their historical context, giving a sense of the evolutionary and revolutionary processes which make for progress in science. The physical content of major ideas will be emphasized in a nonmathematical way, and simple exercises and demonstrations will familiarize the student with some of the less intuitive results of modern physics. Finally, attention will be given to major unsolved problems and to the forms that radically new

physical understanding might take.
Mr. Wolfson

PH 109 Mechanics and Thermodynamics Fall

This course examines the phenomenon of motion in a number of fundamental forms: point mass and rigid body dynamics, fluid flow, and waves in continuous media. Using Newton's laws of motion and the powerful techniques provided by the calculus, it explores the central role of momentum and energy in the description of mechanical phenomena. As an additional example of the importance of the principle of conservation of energy, a discussion of the relation between thermal and mechanical energy will conclude the course. The lab work in this course aims to develop measurement and data analysis skills by providing examples in which the behavior of actual systems can be quantitatively compared to theoretical predictions. (MA 112 or high school calculus.) Three hours lect., three hours lab. Mr. Gould

PH 110 Electricity and Magnetism Spring

The physical principles of electricity and magnetism are examined and developed to the point where understandings of the electrical structure of matter and the electromagnetic nature of light are gained. The theory of relativity is explored and its implications for mechanics and electromagnetism noted. Practical topics from electricity and magnetism include voltage, current, resistance, capacitance, inductance, and AC and DC circuits. Laboratory work includes an introduction to electronics and to important instruments such as the oscilloscope. (PH 109 or permission.) Three hours lect., three hours lab. Mr. Wolfson

PH 145 Electronics for the Intimidated Fall

This self-contained introduction to electricity and electronics is intended for nonscience majors who are mystified by electronics and want not to be. As such, it is *not* open to majors in the natural sciences. Using only high school algebra and simple trigonometry, the students will study the behavior of DC and AC electrical circuits. Next, the manner in which solid state diodes and transistors are used to control and modify electrical signals will be considered. This, in turn, will lead to an examination of common circuit configurations such as power supplies, amplifiers, oscillators, and radio detector circuits. The course will conclude with an overview of the manner in which these "building blocks" are used in complete electronic systems such as TV's, radios, and hifi's. The labs will involve the construction and testing of these important "building block" circuits. Three hours lect., two hours lab. Mr. Cooney

PH 155 An Introduction to the Universe Fall

This course is designed to introduce the science of astronomy to students who do not intend to major in the physical sciences. There are three primary goals: (1) To give some insight into how scientists come to understand nature through the interplay of theoretical models, laboratory experiments and observations. (2) To examine some of the recent discoveries of astronomy and astrophysics, e.g. quasars, pulsars, black holes. (3) To provide some appreciation for the sky as part of our natural environment and cultural heritage. The course focuses attention on several important topics, including how stars live, evolve, and die, the origin of the solar system, and the structure of our Galaxy. Through a sequence of steps we move from the familiar and accessible to the enormous distances and times necessary to consider the past and future of the entire Universe. Laboratory work includes use of the College Observatory. (No prerequisites.) Three hours lect., three hours lab. Mr. Boyle

PH 210 Introductory Quantum Physics Fall

The course opens with an examination of the early evidence for and theories of the quantized behavior of microscopic systems, including the kinetic theory of matter and the first observation of the discrete nature of charge, mass, and energy. Next, the wave mechanics is introduced and the implications of this theory, such as the uncertainty principle, are discussed. The course concludes with an overview of the wide range of applications of this theory to atoms, molecules, atomic nuclei, solids, and elementary particles. (PH 110, corequisite MA 201.) Three hours lect., three hours lab. Mr. Cooney

PH 212 Methods of Theoretical Physics Spring

This course concentrates on the methods of applied mathematics and the special functions that are commonly used in theoretical physics. Topics include differential vector

calculus and orthonormal function sets used with the partial differential equations of physics. Emphasis will be given to physical applications of the mathematics. This course is a prerequisite for all 300 and 400 level physics courses. (MA 201, PH 110.) Mr. Gould

PH 221 Electronics for Scientists Fall
An introduction to modern electronic circuits and devices, emphasizing both physical operation and practical use. Transistors and integrated circuits are considered in both analog and digital applications. Examples and laboratory experiments stress measurement and control applications in the physical and biological sciences. students will gain "hands on" familiarity with the design, use, and troubleshooting of electronic instrumentation. (PH 110 or permission.) Three hours lect., three hours lab. Mr. Wolfson

PH 230 Intermediate Mechanics Spring
The mechanics of particles is extended through the use of generalized coordinates to provide equations of motion for complex mechancial systems. The resultant formalism stresses energy rather than force and allows considerable freedom in the choice of variables used to describe the motion. The method is illustrated by theories for planetary orbits, gyroscopes, coupled oscillators, deformable solids and fluids. (Prerequisite PH 109, corequisite MA 201.) Three hours lect. This course will alternate with PH 232. Mr. Gould

[PH 232 Heat and Thermodynamics]

[PH 266 Contemporary Astronomy and Astrophysics]

PH 302 Electromagnetic Waves Fall
The theory of Maxwell is used as the basis for an electrodynamic description of the behavior of light. Models for the propagation of waves in space and matter serve as the basis for an understanding of common phenomena in optics and communication. The theory is further illustrated through laboratory experience with lasers and microwaves. (PH 212.) Three hours lect. Mr. Boyle

PH 401 Introduction to Quantum Mechanics Spring
A fundamental course in quantum mechanics aimed at understanding the mathematical structure of the theory and its application to physical phenomena at the atomic and nuclear levels. Topics include the basic postulates of quantum mechanics, operator formalism, Schroedinger equation, one-dimensional and central potentials, angular momentum and spin, perturbation theory, and systems of identical particles. (PH 210, PH 212.) Seminar—three hours. Mr. Cooney

PH 500 Research and Special Topics
Fall, Spring
(Permission.) Staff

PH 705 Independent Study and General Examination
Fall, Winter, Spring
Independent study in the fall, winter and spring terms culminating in a written thesis. Accompanied by comprehensive examinations in February. (Three units total.) Staff

*Foundations course

See also Division of Natural Sciences.

See also Program in Environmental Studies.

POLITICAL SCIENCE

Professors: Russell Leng, Paul Nelson (chairman), Olin Robison, Harris Thurber *Associate Professor:* Murray Dry *Assistant Professors:* John Keeler, David Rosenberg, Hugh Wheeler *Resident:* Andrew Dunham

Political Science defines, describes, explains, and evaluates political phenomena. It does so in a number of disciplines or habits, including philosophy, science, history, and prudence. Consequently, the Departmental course requirements include one which concentrates on the classic texts in the subject, and another which concentrates on the methods of modern political analysis. Intermediate level courses are offered in the major areas of the subject, and our senior program involves seminar work. In addition, students may wish to pursue independent study; and this may lead to an honors thesis. The curriculum as a whole is designed to meet the demands of thoughtful citizenship, to depict in use a number of the elements of the liberal arts and sciences, and to prepare those students who intend to pursue further work in either graduate or professional schools.

Required for the Major in Political Science: A major must take ten regular fall or spring term Political Science courses, including: (1) PS 101 or 107; (2) PS 200; (3) fulfillment of a

field distribution requirement; and (4) completion of the Senior Program.

The Field Distribution Requirement: All regular fall and spring term Political Science courses are classified in one of the following four fields: Political Theory, American Political Institutions, Comparative Politics, and International Politics and Foreign Policy. Students must take two courses in any three of these fields, with one exception. If political theory is to count as one of the three fields of concentration, a student must take three courses, or one more than the two that are already required of all majors.

Senior Program: The senior program consists of two seminars of the major's choice. Each seminar includes advance work appropriate to the field in which the Seminar is offered. The seminars are the 400 level courses below. The seminars may be taken after the major has begun the junior year, but the two seminars must be taken during different terms.

Departmental Honors: Students who elect to seek Departmental Honors write a thesis in the senior year. The thesis normally begins either as a senior seminar paper or as an Independent Study Project (PS 500). An Honors Thesis proposal must be submitted for approval to the department prior to the term in which the thesis is to be written. If the proposal is approved, the student may register for PS 700 for both the winter term and the spring term. After an oral examination of the completed thesis, Honors are conferred or denied on the basis of (1) the level of the grade achieved on the thesis and (2) the level of the average grade received in other fall and spring courses in the department. Students may substitute the Honors thesis for one of the senior seminars.

Independent Study: Students with demonstrated preparation and proficiency in the field may elect Independent Study Projects (PS 500). These projects are prepared under the supervision of a member or members of the department. A 500 project may be substituted for one senior seminar with the approval of the department, in which case a written proposal outlining the project should be submitted prior to the term in which the project is to be done. All students must take at least one senior seminar.

Joint Majors: Students wishing to do a joint major in Political Science and another department or program of studies must: take eight courses, including the two specific requirements; satisfy a two field distribution requirement; take one seminar; and give evidence of having used the training in both major fields, in a thesis or other independent work.

***PS 101 Introduction to Political Science** Fall

A study of classics of political science: Plato, *Republic;* Aristotle, *Politics;* St. Thomas Aquinas, in *Summa Theologica;* Machiavelli, *The Prince;* Hobbes, *Leviathan;* Locke, *Second Treatise on Government;* Rousseau, *Second Discourse;* Marx, *Communist Manifesto* et al; Weber, "Science as a Vocation"; Nietzsche, *The Use and Abuse of History.* (Freshmen and sophomores or permission.) Mr. Dry, Mr. Nelson

PS 102 The American Political Regime Spring

Our examination of this "first new nation" begins with the Constitutional Convention and the framers' deliberations over the best form of government consistent with the principles of the Declaration of Independence and appropriate to the people of the United States of America. Study of this and later critical moments in the interpretation and construction of the American political regime requires an examination of the writings of *The Federalist,* Jefferson, Marshall, Calhoun, Tocqueville, Lincoln, and Frederick Douglass. Next, selected basic problems in American politics are examined by means of Supreme Court cases and critical essays. Topics have included race, city politics, moral basis of international action, and higher education. Mr. Dry

PS 103 Introduction to Comparative Politics Spring

This course provides an introduction to the three major types of political systems in the world today: constitutional-democratic systems, authoritarian-dictatorial systems, and the modernizing nations of the Third World. The reading includes material describing the political ideologies and governing institutions of several of these countries (Britain, France, Soviet Union, China, India) as well as case studies describing the daily political life of the people who live in them. While the primary emphasis of the course is on the politics of nation-states, consideration is also given to sub-national or communal politics (e.g., Quebec separatism and Soviet nationalities) and trans-national or global politics (e.g., the food and population balance).

Mr. Rosenberg

PS 104 Introduction to American Political Processes Fall

An examination of contemporary politics and policy-making in American national government. The course includes a consideration of parties and electoral behavior, Congress, the Presidency, interest groups, bureaucracy, and the courts. Attention is given to areas of both domestic and foreign policy making, with emphasis on the American experience in the last two decades.

Mr. Dunham

PS 107 Politics and the Studies of Politics Spring

This course will consider classic texts of Western political thought, in which the nature of politics, justice, freedom, authority, and the common good are discussed. The aims of the course are to see what each of the texts says about politics and its ingredients, and to determine the mode or modes of thought in which the author is working. For example, we will pay close attention both to the substance of Aristotle's political science and to the manner in which he conducts his inquiry. Other works may include Shakespeare, *Julius Caesar,* Macaulay, *History of England,* Edmund Burke, *Reflections on the Revolution in France,* Adam Smith, *The Wealth of Nations,* Karl Marx and Friedrich Engels in *The German Ideology,* and Max Weber in "Science as a Vocation."

Mr. Nelson

POLITICAL THEORY

*PS 101 (See above)

*PS 107 (See above)

PS 200 Empirical Political Analysis (formerly PS 331) Spring

Two major questions are considered in this course: (1) What is the relationship between scientific inquiry and the study of politics? and (2) What are the major approaches and methods now used in the study of political phenomena? The course includes periodic analytical exercises designed to help the student develop critical sophistication; that is, the ability to recognize and produce a well-formed argument, a sound inference, an elegant proof, a plausible explanation, and a persuasive proposal of remedial action.

Mr. Rosenberg

PS 317 Classical Political Philosophy Fall

Study of the first great work of political philosophy, Plato's *Republic.* Although this book is itself perhaps the greatest example of the kind, so that a clear definition of what is going on in it could be inferred from the text itself, the course will begin with a general consideration of the character of political philosophy and with a consideration of *our* relation to this book. Study of the *Republic* will be followed by that of two critiques of it, the first, Aristotle's in Book I of the *Nicomachean Ethics* and in Book II of the *Politics,* the other, by Hegel's, in his *Philosophy of Right.* Assignments from current literature on the *Republic* are designed to show the character of and differences between, philosophical, historical and political considerations of the book. Mr. Nelson

PS 318 Political Philosophy: Modernity Spring

The most general characterization of modern political philosophy is that it breaks with ancient and medieval thought by its "realism," or by its rejection of virtue as the end of political life and its replacement of virtue by phenomena like natural rights, freedom, power and commerce. Writers include Hobbes, Rousseau, Burke, Hegel, Marx, and Nietzsche. Mr. Nelson

PS 401 Seminar on Political Philosophy: Liberalism and Marxism Spring

Liberalism presents itself today in opposition to Marxism even more fundamentally than to Conservatism. Even that opposition conceals some agreement, regarding the ultimate goal of a universal and homogeneous state, in which every adult human being is a full member. In that respect, the ancient writers, notably Plato and Aristotle, may constitute an instructive alternative to modern thought. To understand these issues, this course will focus on the writings of Montesquieu or Spinoza, Tocqueville, Kant, and Marx. We shall also examine some more recent writers, such as Schumpeter, Harrington, Marcuse, Lowi, Rawls, Mansfield, and Strauss. (Permission.) Mr. Dry

PS 409 Seminar in Political Philosophy Fall

Study of Aristotle's political science, chiefly his *Nicomachean Ethics* and *Politics.* In addition to trying to recover Aristotles meaning,

we will consider both some objections to Aristotle's political science (for example: that it is unscientific in the modern sense of the term science; that it is illiberal in its substance; that it is hopelessly ignorant of political events since its time) and some defenses of it (for example: that it is of all the studies of politics the most faithful to the character of its object, even in its modern forms; that it is the most adequate account we have of the relation between man as a political being and man as a knower). We will look in particular at recent literature on Aristotle to show there is no reason to "remove the remains of his reputation to a last resting place in the dreary cemetery of literature." (Permission.) Mr. Nelson

AMERICAN POLITICAL INSTITUTIONS

PS 102 (See above)

PS 104 (See above)

PS 203 American Politics and Legislation Fall

The American political process; the theory and practice of politics; the functions and activities of political parties and interest groups and their role in the initiation and control of governmental policies including a consideration of crucial political issues and practical politics. (PS 102 or 104.)
Mr. Thurber

PS204 American Politics and Legislation Spring

The formal and informal aspects of legislative organization and procedure; a study of political power as found in the legislative process and in the activities of the power groups in American society. Closely related to current legislative proceedings. (PS 102 or 104.) Mr. Thurber

PS 206 Democracy in America Spring

This course will involve an intensive examination of the role of the American people in forming and controlling public policies. We will start by evaluating alternative definitions of democracy, and then examine empirically the role of public opinion, voting, political parties, and itnerest groups in American politics. Mr. Dunham

PS 301 State and Local Government Spring

Institution, structure, and political process at the state and local level. Contemporary issues and problems facing state and local government in the American political system. (PS 102 or 104) Mr. Thurber

PS 304 American Public Policy Spring

This course will focus on what the federal government does and what difference it makes. We will study a number of specific government programs and policies (education, welfare, military, etc.) in order to determine what is being done by the government, what are the goals of the programs, and what are the results. Mr. Dunham

[PS 305 American Constitutional Law: Principles and Structure]

PS 306 American Constitutional Law: Individual Rights Fall

This course is primarily a study of the Supreme Court's interpretation of the Constitution's Bill of Rights and the Fourteenth Amendment's Due Process clause. The main subjects are the First Amendment freedoms of speech, press, assembly, and religion, the rights of the accused, as protected by Amendments Four through Eight, and other noncriminal rights of due process. Consideration will also be given to philosophic explanations of the nature of individual rights and their relationship to the obligations of citizenship and the powers of American government. A Mock Court exercise is anticipated. (Juniors and Seniors with PS 102, or PS 305, or permission.) Mr. Dry

PS 307 The American Presidency Fall

Powers, purpose, and functioning of the Presidency in the American political system. (PS 102 or 104.) Mr. Thurber

[PS 415 Seminar in American Government: President and Congress]

COMPARATIVE POLITICS

PS 103 (See above)

PS210 The Politics of Development Fall

This course provides an introductory survey of the major ideologies and strategies of development in the Third World. The first part of the course examines the basic issue of

development: how can a rapidly-changing society constitute a legitimate political order? Examples from Brazil, Tanzania, Vietnam, and Indonesia will be considered. The second part of the course provides a comparative analysis of development policy in India and China. Mr. Rosenberg

PS 225 West European Politics Fall

A comparative examination of political structures and processes in post-war Western Europe, with emphasis on the four principal polities: France, West Germany, Italy and the United Kingdom. Topics to be treated include: the political implications of various forms of parliamentary government; the evolution of political cleavages, party systems and governing coalitions; the dynamics of policy-making; the capacity of European governments to respond to political crises (the explosion of May 1968 in France; the "Troubles" of Northern Ireland in the United Kingdom; terrorism in Italy and West Germany); the struggle for democracy in Spain; the movement toward economic and political integration in the European Community. Mr. Keeler

PS 319 East Asian Political Systems Fall

This course is designed to introduce the students to the political systems of the People's Republic of China and Japan, concentrating on the post-1945 period. We will specifically address questions about the basic nature of these political systems, the courses of their political development, the nature of their leadership, the character of their political cultures, the functions performed by varied political structures, the processes of policy formation and implementation, the techniques of social mobilization, the role of the military, the operation of the bureaucracy. Mr. Wheeler

PS 321 Political Organizations and the Political Process Spring

An examination of the dynamics of political organizations (political parties and interest groups) and the roles which they play in the political processes of liberal democratic polities. Topics to be treated include: the functioning of the two party system in the United States and Britain; the organization and power of the Communist parties of France and Italy; the rise and fall of "party machines" in American cities; the industrial and political power of labor unions; agricultural unions and the development of corporatism; the evolution of the civil rights movement, the women's movement and the student movement of the 1960s. Students will also study organizational activity in and around Middlebury. Mr. Keeler

PS 326 Comparative Foreign Policy Spring

This course examines the basic elements of foreign policy as well as the policy-making processes for several countries. The basic elements are geography, natural resources, population, the military and industrial establishments, and ideology. The foreign policy-making process includes the roles of governmental (e.g., executive and legislative) and non-governmental (e.g., political parties, interest groups, etc.) agencies. Finally, the basic trends and diplomatic practices in foreign policy are examined. Examples of countries studied include Britain, France, West Germany, the Soviet Unon, the People's Republic of China, Japan, and India. Mr. Wheeler

PS 404 Poverty and Progress in the Third World Fall

Problem: It has become increasinly evident that rapid economic growth at the national level is not sufficient to reduce unemployment, poverty and inequality in developing countries. *Solutions:* Some proclaim that it is necessary to sacrifice growth in order to achieve better distribution, while others contend that only with higher growth rates will there be anything significant to distribute. In some countries, the rhetoric of populism has been used as camouflage for authoritarian maintenance of the status quo, while elsewhere political and economic institutions have been drastically transformed. *Seminar approach:* The seminar will examine case studies of these diverse solutions to determine how they differ in objectives, in the ideologies and methods used to mobilize support and to suppress dissent, and in the distribution of the benefits of economic growth. *Requirements:* Each student is expected to select a case study and present an analysis describing and evaluating how a particular regime has responded to this problem. (Permission.) Mr. Rosenberg

PS 406 Seminar: Politics in France Spring

The first few weeks of this course will seek to provide the historical background requisite for an understanding of contemporary

French politics; discussion will focus on the social, economic and political legacies of the Third Republic, the Vichy regime, the Liberation and the Fourth Republic. The remainder of the course will consist of a comprehensive examination of the structures and dynamics of the Fifth Republic. Topics to be studied in depth include: the establishment and the evolution of the Gaullist governmental structures; the bipolarization of the party system into "majority" and "United Left" coalitions; the role of the bureaucracy and the problem of political control; the dynamics of policy-making and implementation, with case studies of educational, regional and agricultural reform; the foreign policy of "independence" and its importance as a basis of domestic political stability. (Permission.) Mr. Keeler

INTERNATIONAL RELATIONS AND FOREIGN POLICY

PS 201 International Politics Fall

An introduction to the study of international politics. The material covered includes the formulation of foreign policy, internation behavior, the nature of the international system, and possible causes of international conflict. Mr. Leng

PS 202 Contemporary International Politics Spring

Four or five major contemporary international problems are considered in conjunction with conceptual models and theories of social scientists attempting to explain them. Topics considered in recent terms have included: the future of the East-West detenete, Sino-Soviet relations, the political impact of multi-national corporations, the Middle East conflict and relations between rich nations and poor nations. Mr. Wheeler

[PS 302 International Conflict Resolution]

PS 311 American Foreign Policy Fall

An examination of the evolution of American foreign policy since the end of World War II. The first part of the course traces the development of policy since 1945, focusing on selected critical periods and events. Topics to be studied in depth include: the origins of the Cold War; the formulation and implementation of the policy of containment; the impact of the Korean War; the 1956 Suez Crisis; the Cuban Missile Crisis; the Dominican intervention; the involvement in and extrication from Vietnam; the dynamics of détente; the issue of human rights; the implications of interdependence and the impact of the Oil Crisis of 1973-74. The second part of the course examines the domestic structures and sources of foreign policy: the state department bureaucracy; the executive-congressional relationship; the role of public opinion and the press. (PS 201 is helpful, but not required.) Mr. Keeler

PS 405 Seminar on the Causes of War Fall

The course involves a theoretical examination of the causes of war, drawing on several disciplines, including biology, anthropology, social psychology, economics and history, as well as political science. It is also intended to familiarize students with the actual incidence of war in history, especially since 1815. Lastly, the course combines the theoretical work and the knowledge gained about the incidence of war to examine contemporary research on the causes, conduct, and consequences of war. (Permission.) Mr. Wheeler

[PS 408 United States/Soviet Union Relations in the 1970s]

PS 412 Seminar on Diplomacy Spring

The course provides an overview of the development of modern diplomacy, the problems faced by contemporary diplomatists, and some of the newer approaches employed by scholars in attempting to understand the dynamics of inter-nation bargaining. The course begins with a substantive examination of the development of modern diplomacy as seen in the key peace treaties from Westphalia to Potsdam. This is followed by consideration of some selected empirical studies of diplomacy and inter-nation bargaining in the contemporary era. The last part of the course is devoted to a case study of one of the most complex diplomatic problems in today's world: the Arab-Israeli dispute. (PS 201 is recommended.) Mr. Leng

INDEPENDENT PROJECTS

PS 500 Advanced Projects

A program of independent work designed to meet the individual needs of advanced students. (Permission.) Staff

PS 700 Honors

(Permission.)

*Foundations course

PSYCHOLOGY

Professors: Albert Ewell, David Prouty (chairman) *Assistant Professors:* Bobby Osborne, Marc Riess

For the student who majors in psychology, engagement with experimental data lays the basis for an empirically founded and objective formulation of principles of human behavior. He or she may encounter the data in published research reports, in regular laboratory work, and in connection with individual research along lines that he or she finds important. The relevant observations may involve human subjects or sometimes infra-human subjects for the better experimental control that they may permit. Whatever the sources of the observations, the student comes to see them as products of the experiments that generated them, and thus evaluates their importance for hypothesis or generalization.

As a psychology major the student takes a program of elective and required courses in psychology and related disciplines. By the end of sophomore year, through work in psychology, and in cognate fields, the student has acquired familiarity with many of the data, concepts, and research procedures essential to an understanding of human behavior. During the last two years the student makes use of accumulated knowledge and skills in his or her deep involvement with several areas of central importance to psychology.

Required for the major in Psychology: PY 105, PY 201, PY 202, either PY 203 or PY 204, PY 301, either PY 207 or PY 208, three additional electives from the PY 200 or 300 level courses, two 400 level seminars (PY 703 may be substituted for one of these), and two courses chosen in light of the student's interest and with department consent from among the courses offered in Biology, Mathematics, Physics, and/or Chemistry.

Senior Program: All majors in Psychology must complete two of the advanced research-seminar courses in Psychology. These are: PY 411, PY 414, PY 416, PY 426 (PY 703 may be substituted for any one of these). Joint majors must complete one of these advanced courses.

Department Honors in Psychology: Students who seek to be graduated with Departmental Honors in Psychology should consult with some staff members during the junior year and begin actively planning their research during that time. They may be encouraged to take one or more 500 courses to forward their plans. Then during the spring term of the senior year they will enroll in PY 703 after meeting the special requirements specified in the course description.

Joint Major in Biology and Psychology: For students interested in this joint major the requirements are: BI 110 ro BI 125, BI 225 or BI 314, BI 316, and three electives in Biology. (Students are strongly advised to elect BI 250 as it is prerequisite for many advanced courses); PY 105, PY 201, PY 202, PY 207, PY 301, one PY 400 level course or PY 703; three electives chosen with the adviser's approval from the courses in Chemistry, Mathematics, or Physics.

Joint Major in Psychology and Sociology: Consult chairmen of the respective departments for details.

***PY 105 Foundations of Psychological Thought** Fall, Spring

This course begins with consideration of several of the paradigms of continuing interest to psychologists: those of Freud, Skinner, and Rorschach. The course then turns to other models psychologists follow in asking questions. Next, some selected issues of contemporary psychology are viewed in detail.

Staff

PY 201 Research and Communication Fall

This course deals with procedures of research in psychology and the behavioral sciences. It gives particular emphasis to the procedures involved in the statistical analysis of research results and the style of communicating them in writing. (PY 105 or permission.) Mr. Ewell

PY 202 Psychophysics Spring

This course follows upon the work of PY 201 and deals with the problems of classical psychophysics, psychophysical scaling, and signal detection. These areas are seen in the context of problems of vision and particularly of visual brightness. (PY 201.) 3 hrs. lect., lab. Mr. Ewell

PY 203 Social Behavior Spring

This lecture style course will provide a comprehensive introduction to the discipline of social psychology from a psychological perspective (i.e., a focus on the individual). Theory, research, and application concerning each of the following topics will be considered: conflict and its resolution, attitudes

and opinions, prejudice, sexism and socialization, affiliation, person perception and attribution, liking and love, altruism and helping behavior, aggression, conformity and obedience, social influence and power, group dynamics and leadership, and environmental psychology. (PY 105 or permission.) Mr. Riess

PY 204 Introduction to Personality Fall

This course provides an in depth overview of the field of personality psychology. Three classic theories of personality: (1) Freud's Psychoanalytic Theory, (2) Jung's Analytical Theory, and (3) Sullivan's Interpersonal Theory will be discussed. Then the conceptual analysis and measurement of individual difference variables such as intelligence, self-esteem, anxiety, and authoritarianism will be considered. Finally, personality concepts will be applied to social problems such as aggression, sexual behavior, liking, and helping behavior. (PY 105 or permission.) Mr. Riess

PY 207 Conditioning and Learning Spring

This course introduces the laboratory experiments and the theories relating to the major phenomena of conditioning and learning. (PY 105.) 3 hrs. lect., lab. Mr. Osborne

PY 208 Memory and Conceptual Processes Fall

This course deals with some of the problems of human memory and thinking: how information is coded, how it is stored, how stored information is retrieved, and how stored information may be used in dealing with new situations. The course touches on contemporary models of memory processes, concept learning, thinking, and some aspects of language. (PY 105.) 3 hrs. lect., lab.

Mr. Prouty

PY 225 Child Psychology Spring

The purpose is to describe the major stages of child development in our society and to examine the principles and implications derived from this description. The course will consider such topics as: the nature of the developmental process, perceptual-motor development, the growth of cognitive skills, language development, the emergence of personality, and the child in school. (PY 105.) (This course will receive Teacher Education credit.) Staff

PY 301 Physiological Psychology Fall

The central focus is on the neurophysiological and neuroanatomical substrates of both human and animal behavior. In the laboratory the student will learn several of the surgical and anatomical techniques used to investigate central nervous system function. (PY 105 or permission.) 3 hrs. lect., lab.

Mr. Osborne

PY 321 Nonverbal Behavior and Communication Spring

This seminar course will provide a comprehensive coverage of the theories, research, controversies, and applications (e.g., to psychotherapy) in the field of nonverbal behavior. Each channel of nonverbal behavior will be considered. These include: (a) kinesics—e.g., body language, facial expressions; (b) proxemics—e.g., personal space, territoriality; (c) touching; (d) vocalics—e.g., pitch, loudness, accents; (e) physical appearance; (f) time; and (g) environmental objects—e.g., architecture and design. Then the functions of nonverbal behavior in human interaction, such as first impression creation, emotional displays, self-presentation, and deception, will be considered. (PY 201 or equivalent/or permission.) Mr. Riess

PY 325 Abnormal Psychology Fall

This course explores first the standard nosology of mental illness and then looks at the problem of abnormal behavior with an interest in the light that the several natural and social sciences can throw on its etiology. (PY 204 or permission.) Mr. Ewell

PY 411 Contemporary Issues in Psychology Fall

This course will focus on the major conceptual frameworks that define contemporary psychology: Skinner's radical behaviorism, Freudianism, and that of the humanistic group. These will be examined for their present and future usefulness as paradigms. An attempt will be made to see psychology both as a science and as a human endeavor. (Senior Psychology major, or permission.) Mr. Prouty

PY 414 Research in Personality and Social Psychology Fall

In this course the student will become familiar with the processes involved in the conceptualization, design, ethical analysis, performance, and interpretation of research in personality/social psychology. This will be accomplished through a) reading literature on the conduct of research, b) replica-

tion of a classic experiment in the discipline, and c) conducting an original experimental research project. Correlational as well as experimental methods employed in both laboratory and field settings will be considered. (PY 201 and either PY 203 or PY 204 or SA 101; or permission.) Mr. Riess

PY 416 Special Topics in Physiological Psychology Spring
(PY 301.) Mr. Osborne

PY 426 Psychoanalysis Spring
This seminar course deals with the formulations of various psychoanalytic theorists from Freud and his students to the neo-Freudians to Sullivan with respect to personality and the procedures of therapy (PY 325 or permission.) Mr. Ewell

PY 500 Advanced Research Fall, Spring
A program of research arranged to meet the needs of advanced students majoring in psychology. (Permission.) Staff

PY 703 Honors Candidacy Spring
Students hoping to be considered as candidates for Departmental honors in Psychology must, under the sponsorship of a member of the department faculty, submit a formal, written research proposal to the department by November 10 of the senior year. If the proposal is approved by the department the student will be considered a candidate for Departmental Honors and will enroll in this program, as one course-equivalent, during the spring term of senior year. Decision about the award of Departmental Honors will be taken after the student submits a thesis and defends it in an oral examination. (Permission.) Staff

*Foundations Course

See also Division of Social Sciences.

RELIGION

Professors: Robert Ferm (chairman), Charles Scott *Associate Professor:* Steven Rockefeller *Instructor:* M. David Eckel

Courses in religion are designed to acquaint students with the many aspects of religious life in a variety of cultural settings, and with the chief methods in investigating and interpreting religious phenomena.

Major Program: A major in religion must satisfactorily complete ten courses including: RE 105, RE 110, RE 115, RE 204 or RE 220, RE 301 or RE 302, and three additional seminars. A cognate course may be included in the major but only with *specific* and *prior* permission. Each major will elect an area of concentration which may be a religious tradition, a theme, a field (such as Biblical Studies, Philosophy of Religion), or an historical period.

Philosophy-Religion Joint Major: Students whose interest is the philosophy of religion or the religious aspect of philosophy may elect a joint major in philosophy and religion. For a detailed description of the major, consult either department chairman.

Departmental Honors: Students who have maintained a B average in departmental courses may elect at the end of their junior year to become candidates for departmental honors. During the fall semester of senior year an honors candidate shall enroll in a RE 500 course and do preliminary research on a chosen topic under the direction of a faculty member. Following the satisfactory completion of this course and with the recommendation of the faculty member the student shall prepare a thesis during the winter and spring terms (the thesis will count as two course credits). "Honors" shall be awarded to candidates who receive a B+ as their thesis grade; "High Honors" to those who receive an A−; "Highest Honors" to those who receive an A; in each case candidates must maintain a B average in their departmental course.

INTRODUCTORY COURSES

100 and 200 level courses are open to all students without prerequisite or permission.

***RE 105 An Introduction to the English Bible** Fall
This course is a general introduction to Biblical history, literature, and interpretation. It aims to acquaint students with the major stories from the Old and New Testaments, with the historical contexts, and with the critical methods by which these materials may be better understood. One emphasis will be the relation of the Bible to art, literature, and morals. Mr. Scott

***RE 110 Introduction to Western Religious Life and Thought** Spring
An introduction to religious life and thought among the ancient Hebrews, Greeks

and Romans and the early Christians with readings in the writings of Aeschylus, Plato, the Old and New Testaments, the Stoics, the Epicureans, the Neo-Platonists and St. Augustine. Mr. Rockefeller

***RE 115 Introduction to Eastern Religious Life and Thought** Fall, Spring

An introduction to the central figures and key concepts of the major non-western religious traditions: Hinduism, Buddhism, Confucianism, Taoism, and Islam. The course will begin with key persons or texts whose values have shaped the development of Asian civilization and will go on to consider the impact of those values on the lives of modern men and women. Mr. Eckel

RE 204 The Jewish and Christian Traditions Spring

A course designed as an introduction to the development of the Judaeo-Christian tradition. Attention will be given to the early conflicts between Jew and Christian, the formation of church structure (e.g., creeds and sacraments), the rise of anti-semitism, the divisions within Christianity and Judaism, and some adjustments these groups made to social and intellectual change in the nineteenth and twentieth centuries. Mr. Ferm

[RE 209 The Hindu Tradition]

RE 210 The Buddhist Tradition Spring

A historical introduction to Buddhism. This course will be concerned with the development of Buddhism in India, Southeast Asia, China, and Japan with particular attention to the problems experienced in adapting the Buddhist tradition to new social and cultural conditions. The course will consider developments in myth, ritual, doctrine, and meditation. Mr. Eckel

***RE 220 The Shaping of American Religious Life** Fall

A study of the historical sources of the western religious traditions and their expression in the social and intellectual context of American history. Particular attention will be given to Puritanism in America, the impact of westward expansion, and the influence of social and intellectual change in the late nineteenth and twentieth centuries. Mr. Ferm

[RE 280 Studies in the Old Testament]

RE 281 Studies in the New Testament Spring

A study of the formation and interpretation of the New Testament materials which portray the life and significance of Jesus of Nazareth. The Gospels will be read thoroughly as well as selected Epistles and commentaries. Mr. Scott

STUDIES IN RELIGION

The following courses are limited in enrollment and are offered with prerequisites or by permission.

RE 301 Modern Views of God and Religious Life: the 19th Century Fall

Comparative studies in the writings of some of the more radical modern religious thinkers including Schleiermacher, Hegel, Feurbach, Kierkegaard, Dostoevsky and Tolstoy with a primary emphasis on interpretations of the idea of God, the nature of religious experience, and what it means to be a religious person and to lead a religious life. Mr. Rockefeller

RE 302 Modern Views of God and Religious Life: the 20th Century Spring

Comparative studies in the writings of such figures as Martin Buber, John Dewey, Paul Tillich, Reinhold Niebuhr, and Walter Stace with an emphasis similar to that in RE 301 Mr. Rockefeller

RE 303 Theories of Religion Fall

An examination of modern sociological, psychological and phenomenological theories of the origin, nature and function of religion with readings from the works of Emile Durkheim, William James, B. Malinowsky, Rudolph Otto, Sigmund Freud, C.G. Jung, Mircea Eliade and others. (Permission.) Mr. Rockefeller

RE 306 The Puritan Tradition in America Fall

A study of the major figures and issues in Puritanism in America during the seventeenth and eighteenth centuries. The course will also deal with how these issues changed during the nineteenth and twentieth centuries. (RE 220 or Permission.) Mr. Ferm

RE 308 Seminar in American Religious History Spring

Topic for 1979-80: A study of the trends and themes of contemporary American religious life, including interpretations of civil religion, black theology, growth of conservative movements and radical theological concerns. (Premission.) Mr. Ferm

RE 310 Seminar in Biblical Theology Fall

Topic for 1979-80: The Life and Thought of Dietrich Bonhoeffer, a brilliant young German theologian of the 1930's and early 1940's. Bonhoeffer participated in the Resistance against Hitler and the Nazis was arrested by the Gestapo in 1943, was imprisoned and finally executed in April, 1945. His works, especially those written during World War II and from prison, have received mounting attention because they challenge so many secular and religious assumptions of modern society. Most of his works will be read as well as the biography of Eberhard Bethge. (Permission.) Mr. Scott

RE 311 Buddhist Philosophy Fall

A study of theological reasoning in a tradition that denies the existence of God and questions the validity of reasoning. The course will be concerned with attempts made in the Buddhist intellectual tradition in India to demystify and given analytical content to such key Buddhist concepts as suffering, freedom, enlightenment and nirvana. (Permission.) Mr. Eckel

[RE 312 Mysticism East and West]

RE 340 Seminar in the History of Religions Spring

Topic for 1979-80: A comparative study of the concept "faith" as a fundamental category of the religious life. Examples for study will be taken from the Christian, Jewish, Islamic, Buddhist, Hindu, Confucian, and Taoist traditions. (Permission.) Mr. Eckel

RE 500 Independent Research Staff

RE 700 Senior Research for Honors Candidates Staff

RE 702 Senior Seminar Spring Staff

The following cognate courses may be credited toward the requirements for the religion major.

[HI 328 The Reformation]

HI 418 Writing and Research in English Church History Mr. Martin

PA 213 Philosophy of Religion Mr. Nuovo

[PY 309 Psychology and Religion]

SA 380 Anthropology of Religion Mr. McGough

*Foundations course

RUSSIAN

Professor: Robert Baker (chairman) *Assistant Professors:* David Bethea (on leave), Thomas Beyer *Visiting Assistant Professor:* Alan Smith *Instructor:* Jane Miller (at Middlebury in Moscow) *Lecturer:* Alexandra Baker

The following courses taught in English by the Department of Russian are open to majors in other departments:* RU 151, Russian Literature's Golden Age;* RU 152, Revolutionary Literature in a Revolutionary Society: Russian Modernism; RU 351, Dostoevsky; RU 352, Tolstoy; RU 354, Chekhov.

Formal admission to the major program is attained through satisfactory grades in RU 202 and RU 152 or through satisfactory scores on a qualifying examination. The qualifying examination will cover all language skills and a general knowledge of Russian literature and culture from its beginnings to the present.

Prospective majors are strongly urged to take an intensive Russian course during the winter term following RU 201.

Normally a *major program* will consist of the following courses following the qualifying courses listed above: RU 301, RU 302, RU 311, RU 321 and two courses chosen from the following: RU 312, RU 313, RU 314, RU 401, RU 402. Although all students will be expected to take work in the areas of language, literature, and civilization and culture, the program of an individual student may place greater emphasis on any of these three areas and each student's program will be planned individually in consultation with the chairman. (Students returning from the Middlebury program in Moscow will be considered

to have fulfilled all specific course requirements except for a seminar to be taken in their senior year.)

The *Senior program* will consist of a seminar taken during the senior year. Students with an over-all B average and a B+ average in Russian courses will be encouraged to prepare an Honors thesis under the supervision of a faculty member. The final typed copy of the thesis will be due no later than April 20 of the year of graduation. The level of honors will be determined by the grade on the thesis accoridng to the following scale: A (Highest Honors); A− (High Honors); B+ (Honors).

Students majoring in Russian should plan on having a second strong field of concentration. Students planning to teach should have a second language, preferably through at least the third year of study. Students planning careers in government, finance, commerce, etc., are strongly advised to have strong concentrations in one of the following fields: Economics, Geography, History, or Political Science. A joint or double major with one of these areas of study makes a particularly strong program.

Beginning with the fall semester of 1977 Middlebury has operated a semester-long program of intensive language study at the Pushkin Russian Language Institute in Moscow. Students anticipating applying for this program should begin planning their entire undergraduate program early. Interested students should consult with the chairman as early as possible concerning this program.

Students interested in the teacher certification program should consult with the chairman of the department and with the Director of Teacher Education at an early date to avoid conflicts in scheduling the required courses.

RU 101 Beginner's Russian Fall

Four-skills approach to provide a firm control of the sound system and the structure of Russian. Although much emphasis is put on the spoken colloquial language, reading, writing and a conscious understanding of the fundamentals of grammar provide a firm foundation for work in advanced courses or for reading in specialized fields. Seven class meetings per week (two lecture sections, five drill sections) and intensive use of the language laboratory. Mr. Baker and Staff

RU 102 Beginner's Russian Spring

Continuation of the approach used in RU 101, but with increased emphasis on reading. (RU 101 or equivalent.) Seven class meetings per week (two lectures, five drill sections) and intensive use of the language laboratory.

Mr. Baker and Staff

***RU 151 Russian Literature's Golden Age (1830-1880) (Pistols, Poets, Prisoners and Prostitutes) (In English)** Fall

The purpose of this course is to acquaint students with the history and development of Russian Literature from Pushkin to Tolstoy and with the critical reaction to that literature. The basic methods of the course will be class discussion supplemented by a few brief lectures on the literary and cultural background of Russia. It is hoped that the course will provide the students with an ability to enter the magical world of manipulation utilized by the Russian authors to circumvent the powers of Russian censorship. A variety of topics will be discussed, including economics, sociological, philosophical and historical considerations, but always as they relate to the unique literariness of the texts. The end results should enable the student to achieve sophistication in literary techniques, as well as an awareness of the Russian experience. No knowledge of Russian is required.

Mr. Beyer

***RU 152 Revolutionary Literature in a Revolutionary Society: Russian Modernism (1880-Present) (In English)** Spring

The purpose of this course is to introduce students to the exciting new experiments of Russian authors who found themselves competing against and reacting to the masters of Russia's Golden Age. Classroom discussion supplemented by brief lectures will focus on outstanding works (largely unknown and untranslated until this decade) which are representative of the various styles and techniques developed to give new life to the Russian literary experience. Examples will be chosen from Decadence, Symbolism, Civil War, Constructionism, Utopian, Five Year Plan, War Communism, Socialist Realism, Thaw and Protest literatures. The emphasis will be on excellent literature rather than on the traditional approach to the Soviet classics. No knowledge of Russian is required. Mr. Beyer

RU 201 Intermediate Russian Fall

Systematic review of grammar and development of the spoken and written skills attained in Beginner's Russian. Five class meetings per week and use of the language

laboratory. (RU 102 or equivalent.)
Mrs. Baker and Staff

RU 202 Intermediate Russian Spring
Continuation of approach used in RU 201. Reading of contemporary Russian texts, conversation and written assignments in Russian based on reading assignments. (RU 201 or equivalent.) Five class meetings per week and use of the language laboratory.
Mrs. Baker and Staff

RU 301 Russian Conversation and Composition Fall
Systematic review of the Fundamentals of Russian grammar combined with the development of oral fluency and freedom of self-expression in speech and writing. (RU 202 or equivalent.) Mrs. Baker

RU 302 Russian Conversation and Composition Spring
Continuation of development of oral and written fluency and correctness. Mrs. Baker

RU 311 Masterpieces of Russian Literature Fall
Reading in the original of select works from Old Russian Literature and 19th Century writers. Readings in both English and Russian on Russian culture and civilization. Classroom discussions, oral and written reports in Russian (RU 202 or equivalent.)
Staff

[RU 312 Masterpieces of Russian Literature]

[RU 313 Russian Masterpieces of the 20th Century]

[RU 314 Russian Poetry]

RU 321 Soviet Man and His World Spring
Readings in both Russian and English on Soviet culture and civilization. Classroom discussions, oral and written reports in Russian. (RU 202 or equivalent.) Staff

[RU 351 Dostoevsky (In English)]

[RU 352 Tolsoty (In English)]

[RU 354 Chekhov]

RU 401 Advanced Language Study Fall
Continued development of spoken and written skills, including stylistic analysis of various types of materials. (RU 302 or equivalent.) Staff

RU 402 Advanced Language Study Spring
Continued development of spoken and written skills, including stylistic analysis of various types of material. (RU 401 or equivalent.) Staff

RU 411 Seminar: Pushkin Fall
Close analytical reading in the original from selected works of Russia's national poet, including lyrics (stikhi), verse narratives (poemy), *Eugene Onegin* and the *Tales of Belkin*. Background reading in Russian and English. Conducted in Russian. (RU 302 or permission of the instructor.) Staff

[RU 421 The Russian Revolution and the Arts]

RU 500 Advanced Studies in Language and Literature Fall, Spring
Supervised individual study for highly qualified students; including Honors Thesis.
Staff

RU 704 Seminar Spring
Topic to be announced. (Senior majors).

*Foundations course

SOCIOLOGY/ ANTHROPOLOGY

Professors: David Andrews, Rudolph Haerle (chairman) *Assistant Professors:* James McGough (on leave fall term), Margaret Nelson *Instructor:* Kitty Calavita *Visiting Instructor:* David Holmberg (fall term)

The department of Sociology-Anthropology has the unique feature of combining two disciplines within a single departmental major. We encourage students to take full advantage of this opportunity to develop an essential perspective for the systematic analysis and understanding of human behavior. Based on the empirical findings of the closely related disciplines of Sociology and Anthropology, this perspective is inherently comparative, such that the department is concerned with the impact of culture and society in various settings. Although both of these disciplines

share common concern about human behavior, each in addition has its own history, concepts, and theoretical commitments. Anthropology essentially focuses on the role of culture in human experience and Sociology is concerned primarily with the role of social interaction and the social structure in human experience.

Required for all Sociology-Anthropology majors: A minimum of ten fall and spring courses *plus* one winter term course will constitute the major. (The second unit of the Senior Thesis, taken during the winter term, can count for the winter term requirement.) The core of the departmental major consists of five required fall and spring courses (SA 103, SA 105, SA 205, SA 301 *or* SA 302, and SA 700 *or* SA 710) which emphasize basic concepts, theory, and research methods, plus one winter term course. Beyond these specific courses, each student may choose 5 to 9 electives from the variety of substantive courses offered by the department.

Ideally, students should take the Research Process course (SA 301 or SA 302) in their junior year in order to prepare themselves for their senior research and writing project. If a major anticipates being away during all or part of the junior year, the Research Process course should be taken during the sophomore year.

Note: Three introductory courses in sociology which are no longer taught (SA 102, SA 106, SA 107) may still serve as introductory prerequisites for advanced courses or credited toward the major for those who have taken them.

Joint majors: There is an established Sociology-Psychology joint major. Consult the respective department chairmen for details.

Senior Program: The senior program consists of *either* a one-semester senior essay (SA 700) *or* a two-semester senior thesis (SA 710). Normally the latter is carried out during the fall and winter terms. When done in this manner, the winter term unit meets the departmental requirement of one winter term course. The senior essay should be written in the fall term. Variations from these patterns are possible only by permission of the department.

A special senior seminar (for both SA 700 and SA 710 students) will be conducted in the fall semester. Its purpose will be to consider recurring research and writing problems.

Departmental Honors: Only students who elect to write a Senior Thesis (SA 710) become eligible for departmental honors. To achieve honors, one must do superior work on both the senior thesis *and* course work in the department. Specifically, the level of honors will depend upon (a) achieving a minimum of a B average in all Sociology-Anthropology courses and (b) the final thesis grade: B+ = Honors; A− = High Honors; and A or A+ = Highest Honors.

INTRODUCTORY COURSES

SA 103 Selected Topics in Socio-cultural Anthropology Spring

Ecology and socio-cultural evolution. The broad spectrum of worldwide socio-cultural variation will be analyzed by focusing on the technologies used to exploit particular environments, the consequent influences upon social organization and belief systems, and the causes and courses of socio-cultural change. Case studies will be used to illustrate major categories of socio-cultural adaptation. Mr. McGough

***SA 105 Social Man and Social Order: Issues in Freedom and Constraint** Fall and Spring

How is social order possible? What is the nature of society? What is the relationship between the individual and society? Is man free to behave as he wishes? In attempting to answer these questions, we shall explore the sociological perspective, with its debunking motif, as a unique form of consciousness. To explicate this perspective, emphasis will be given to the original writings of Karl Marx (selections from *Capital, Economic and Philosophical Manuscripts of 1844, The German Ideology),* Max Weber *(The Protestant Ethic and the Spirit of Capitalism)* and Emile Durkheim *(The Rules of Sociological Method* and *Suicide).* Their ideas will be applied to selected contemporary social problems (e.g., worker alienation, busing to achieve racial integration, religious cults, and deviation in Puritan society). Mr. Haerle

SA 201 Selected Topics in Archaeology and Physical Anthropology Fall

Within an ecological-evolutionary perspective, we will examine a number of topics concerned with pre-historic man and cultures. Topics in physical anthropology will include (1) the emergence of the hominids,

(2) the origin of speech, (3) the relevance of non-human primate studies for an understanding of man, and (4) current variation among man and the various factors that account for this. Topics in archaeology will include site discovery, dating procedures and archaeological inference. (Open to freshmen.) Mr. Andrews

THEORY AND METHOD

SA 205 Topics in Social Thought—Stability and Change Spring

Sociologists and anthropologists show similarities as well as differences in their approaches, though their goals are basically the same: ultimately, the description and analysis of human society. Although there has been a tendency towards a kind of "division of labor" in the allocation of the types of society that are studied, there are many overlapping areas of interest. We shall compare approaches to common problems in the two disciplines and we shall see how differing use is made of common concepts. The differences between the two disciplines will be examined, but throughout the emphasis will be on synthesis and integration. This year's topic will be change and stability within the frameworks of functionalism, Marxism, Social Darwinism and conflict theory.

Mr. McGough, Ms. Nelson

SA 301 The Research Process-Sociology Spring

Introduction to the basic tools of sociological research from problem formulation (including the relationship of concepts, hypotheses and theory) through strategies of design and a collection, to the analysis and presentation of results. Exposure to interviews, structured observation and participant-observation. Concentration on the survey approach, with the entire class conducting an actual sample survey. Submission of the senior thesis or senior essay proposal. Strongly recommended for juniors. (SA 105 or permission.) Mr. Haerle

SA 302 The Research Process-Anthropology Fall

The aim of this course is to prepare the student to conduct research, to evaluate and present research in a scholarly manner and to critically evaluate the research of others. Practice and evaluation of such basic techniques as observation, participant-observation, structural and open-ended interviews and use of documents. Introduction to various methodological and theoretical frameworks. Thesis or essay prospectus is the final product of this course. Strongly recommended for juniors. (SA 103 or permission.)

Mr. Andrews and Staff

SOCIAL ORGANIZATION AND COMPARATIVE INSTITUTIONS

[SA 250 Economic Anthropology]

SA 315 Sociology of Education Spring

An examination of education as both a social institution and social process. Topics include the relationship of education to socialization, the social psychology of learning, the relation of educational institutions to other social structures, the influence of culture on moral education, the bearing which factors such as family background, sex and ethnicity have on the quality and content of the schooling process, the relation of various methods and types of education to the surrounding environment and the actual and potential role of education as an agent for social change. The substantive focus is on American society. (SA 103, SA 105, or permission.) (This course will receive Teacher Education credit.) Ms. Nelson

SA 316 The Sociology of Youth Spring

In the United States, the transition to adulthood is vaguely defined, resulting in an adjustment period characterized by "sturm und drang." The problems to which this course addresses itself spring from a set of historical, demographic, biological, cultural, economic and institutional forces and developments. Within the framework of a youth culture and peer group support, we shall explore the following type of issues: problems of social and sexual identity and maturity, youth in history and fiction, alienation and political activism, the generation gap, athletic participation and educational experiences, training for work and occupational aspirations, juvenile delinquency, and an overarching concern with ethnic and class differentiations. Alternative solutions to the problems of youth will be considered and evaluated. (SA 105 or permission.)Mr. Haerle

[SA 345 Work, Leisure and Sport] Offered in 1980-81.

SA 354 Ethnic Groups in the United States Spring

This course will focus on the various ethnic

groups that are found in the United States. Particular attention will be paid to (1) the relationship between ethnicity and personal identity, (2) the relationship between the various ethnic groups and the larger American society and culture, and (3) the implication of ethnic studies for theories of acculturation and culture change. Some of the major ethnic groups considered are Latin Americans, Japanese, American Indians, Jews and the various European nationality groups. (SA 103 or SA 105 or permission.)
Mr. Andrews

SA 380 The Anthropology of Religion Fall
Social and cultural analyses of religion in human life. Religions in various societies will be considered, with a view to illuminating the nature of symbols, symbolic systems, the roles of religious specialists (shamans, priests, and prophets), and the place of religion in the society and culture at large. The emphasis in case studies will be on Asia. (SA 103 or permission.) Mr. Holmberg

SA 385 Medical Sociology Fall
An introduction to the social organization of modern medical institutions such as hospitals, clinics and rehabilitation agencies. Problems of communication and role relationships among professionals and between patients and medical personnel. The impact of structures and role relationships on the quality and quantity of medical care and on the use of resources will be examined. Analysis of the sick role and the impact of illness. An exploration of man's social activities—economic, residential, familial—in relation to his health (SA 105 or permission.)
Ms. Nelson

SA 387 Sociology of Law Spring
An examination of the social, economic, and political factors affecting law creation, interpretation, and enforcement. Dominant theories of legal development will be analyzed and critiqued, and possible alternative theories will be explored. Specific cases of law creation and its application will be traced in some detail in this search for more adequate explanations of the role of law in given historical contexts. Ms. Calavita

SA 390 The Sociology of Women Fall
The social history of American women from early Colonial times to the present. A consideration of women's place in American society, how society looked at them, the restraints upon women's activities and development, the way these restraints were embodied in social norms and laws, and the changes following urbanization and industrialization. Particular groups of women (e.g., "mill girls," slave women) will be examined in light of general themes such as employment, education, the family and sexuality. Ms. Nelson

SA 391 Advanced Topics in the Sociology of Women Spring
This course will begin with an in-depth examination of feminist theories both old (e.g., Gilman, Wollstonecraft, Fuller) and new (e.g., de Beauvoir, Mitchell, Rowbotham). We will then try to apply these ideas to selected topics in the role of women in contemporary American society: women and law, employment, education and the family. (The final selection of topics is open to negotiation.) This course assumes a familiarity with the history of women in the United States. (SA 390.) Ms. Nelson

AREA STUDIES

SA 321 Native Peoples of North America Spring
An examination of the aboriginal cultures of North America from the Eskimo in the Arctic to the Aztecs of Mexico and the Maya of Guatemala. Included in this examination will be the prehistoric (archaeological) time period, the aboriginal cultures at contact, post-contact history and, to a lesser extent, the contemporary Indian. Texts will be in the form of area surveys, ethnographies, autobiographies and ethnographic novels. (SA 103 or permission.) Mr. Andrews

[SA 322 Native Peoples of South America] Offered in 1980-81.

SA 326 Latin American Culture and Society Fall
An examination of the features that characterize the Latin American cultural area as seen from the anthropological perspective. Although historical data will be considered, the main emphasis is on contemporary Latin America. Particular attention will be paid to urbanization, sub-cultures, social stratification and value orientations. Mr. Andrews

SA 335 Chinese Society and Culture Spring
This course will be a survey of the principal

institutions and ideas which form the background to late imperial and modern Chinese history. It will deal primarily with Chinese families, local communities and social classes, emphasizing the interaction of social, economic and political factors through and after the revolution. Attention will also be paid to the major types of interpretations of Chinese society current in the West and in China. Mr. McGough

SA 338 South Asian Society and Culture Fall

A general introduction to South Asia, specifically covering the Himalayas, India, Nepal and Sri Lanka. Focus on such classic problems as caste and non-caste societies, religious systems (special attention to Hindu and Buddhist traditions), the economy, the articulation of the "little" and "great" traditions, and questions of unity and diversity. Mr. Holmberg

SOCIAL PROCESS AND SOCIAL PROBLEMS

SA 343 American Community Studies Fall

An examination of the American experience since 1920, as viewed through the participants in various types of communities. Dominant cultural values (and their changes) will be studied in relation to emergent and changing community organization. Within the framework of the folk-urban continuum, consideration of various theories of community formation and development. The influence of industrialization, social class, and ethnicity will be explored in the context of the small town, the urban neighborhood, suburbia, the communal setting and in fiction. Assessment of methodological approaches and problems. Mr. Haerle

SA 344 Urban Sociology Fall

An examination of urban development and its effects, historically and cross-culturally. What factors make the concentration of populations in cities possible in the first place? What are the consequences of urbanization, in terms of both broad social processes and individual characteristics? What is the relationship between urbanization and industrialization? How are cities in advanced industrial societies different from those in third world countries? How is power distributed in American urban communities? What are the origins, symptoms, and proposed solutions to the American "urban crisis"? Emphasis will be placed on the interrelationships among technology, social and economic structure, and urban form. Ms. Calavita

[SA 351 Psychological Anthropology]

SA 352 Social Psychology Spring

A consideration of the interrelationships between the individual and society. In particular, the course will examine the specific mechanisms that bind the individual to society; the societal factors which influence the formation of character or personality; and the implications social character has for social change and/or stability. Ms. Calavita

SA 388 Deviance Fall

This course will examine and critique the various theories regarding psychological, biological and/or social causes of deviant and criminal behavior. Specific forms of "deviance" to be examined from these theoretical perspectives include: deviant subcultures, juvenile delinquency, mental illness, white-collar crime, corporate crime, wife-beating, and rape. To be considered also are the social, economic and political determinants of law creation and enforcement. Emphasis will be placed on the ways deviance theories are tied to more general theories of society. Ms. Calavita

SA 495, 496 Seminar in Sociology-Anthropology
SA 495 - Fall, SA 496 - Spring

Offered periodically to allow study of a specific area or topic in Sociology or Anthropology. (Limited to juniors and seniors.) Staff

SA 500 Advanced Individual Study Fall, Spring

Open to qualified students, by permission. Staff

SENIOR PROGRAM

SA 700 Senior Essay Fall

Under the guidance of a faculty member, a student will carry out an independent, one-semester research project, often based on original data. In addition, a senior seminar, in which recurring problems in writing will be discussed, will be held during the fall semester. The final product must be presented in

a written report of 30-45 pages, due at the end of the fall term. Staff

SA 710 Senior Thesis Fall, Winter

Under the guidance of a faculty member, a senior will carry out an independent research project, often based on original data. In addition, a senior seminar, in which recurring problems in thesis writing will be discussed, will be held during the fall semester. Data must be analyzed and presented in a written report of 70-80 pages. Superior performance will be considered for Honors (see information on "Departmental Honors.") Due at the end of the Winter Term. Staff

*Foundations Course

SPANISH-ITALIAN

Professor: Roger Peel *Assistant Professors:* Alicia Andreu, Jon Strolle, Roberto Véguez (chairman) *Instructors:* David George, Giuseppe Faustini *Lecturer:* Gloria Vaglio

SPANISH

In its program of studies in Spanish the department is committed to the twofold aim of developing in its students a full command of the language as well as a mastery of a body of knowledge reflecting the rich contribution of the Hispanic peoples to the world's literature and culture. The early courses concentrate on the rapid and thorough development of the fundamental language skills in preparation for the more advanced courses in language, literature, and culture and civilization. Integrated with the department's offerings are the Middlebury Program for Juniors in Madrid and the Middlebury Summer Language School of Spanish, including intensive courses at the beginning and intermediate level. Non-majors are encouraged to take advantage of these opportunities to widen their educational horizons by studying in the context of another cultural milieu. In the case of majors, it is the department's expectation that they will spend at least one semester in residence in a Spanish-speaking country. Students who are interested in going to Madrid and who are also thinking of participating in the Teacher Education Program should consult with their advisers in both areas as early as possible to avoid any conflict in plans.

The *major* consists of a minimum of eleven courses, including the following three required courses: 1) SI 300; 2) SI 301 or SI 303; and 3) SI 700 or its equivalent. No more than two courses at the 100- or 200-level may be counted towards the major. Upon completing SI 700 or its equivalent (normally to be taken in the fall semester of the student's final year), the student may be nominated as an honors candidate and invited to present a Senior Honors Thesis (SI 705). The department will award Honors, High Honors and Highest Honors on the basis of the student's special project completed in SI 705 and his or her previous work in the department.

Majors are encouraged to supplement their program by selecting, in consultation with the department, courses from related areas outside their major. For graduation in Spanish, a student will be expected to have a thorough command of the language, to be conversant with the major currents of Hispanic literature, and to have a broad knowledge of Hispanic culture gained through the experience of courses at Middlebury and study abroad.

SI 101 Intensive Beginning Spanish Winter

Designed to meet the needs of beginners who want to master, within a very short time, the basic structures and vocabulary of the language. Its basic commitment is to an ordered presentation of all four of the basic language skills: understanding the spoken word, speaking, reading and writing. The unifying factor, however, will be the spoken language, which students will be expected to use exclusively during the course hours. Two approaches to the learning of language skills will be used: one stressing the underlying grammatical patterns of language, and the other, language in its situational context. Classes meet daily for two sessions of approximately one hour and a half each, with types of materials alternated to provide for exposure to the two approaches mentioned. The student's daily course commitment will extend from nine to twelve in the morning plus lunch, which will be taken at Spanish tables with the instructors. (Followed by SI 102.) Staff

SI 102 Continuing Spanish Spring

For students who have successfully completed SI 101 in the Winter Term, the course emphasizes the control of basic language skills which are then used in reading and discussing short works by modern Spanish and Spanish American authors. Staff

SI 201 Intermediate Spanish Fall, Spring

A course designed to consolidate the skills attained in SI 101-102 or its equivalent. The aim is to prepare students for advanced composition and conversation courses. Readings, discussions and compositions. Ms. Andreu, Mr. George

SI 219 Writing in Spanish Fall, Spring

A middle course in composition for students seeking to perfect their command of written Spanish. The course will consist of weekly written assignments on a variety of topics chosen to increase the student's control of the structures and vocabulary of the language. The course will also include a thorough review of grammar at a fairly advanced level. (Regularly followed by SI 220). Staff

SI 220 Spanish Conversation Fall, Spring

An intermediate course designed to perfect the student's fluency in spoken Spanish through a carefully structured program leading gradually into free conversation on topics of broad general interest. The course is based on a variety of materials, including articles from current Spanish and Spanish American magazines, film strips and other media. (Regularly followed by SI 300.) Ms. Andreu, Mr. Prieto

SI 300 Modern Writers of the Spanish World: An Introduction to the Study of Hispanic Literature Fall, Spring

An advanced language and literature course designed to perfect skills in literary analysis and critical writing. The work will be based on the reading of a number of outstanding works in prose and poetry. Frequent short critical essays will complement the reading and provide the student with practice in writing. Open to qualified freshmen and upperclassmen. (Followed by SI 301.) Mr. Strolle

(SI 300, its equivalent, or permission of the instructor is a prerequisite for all 300 level courses.)

SI 301 The Hispanic Tradition in Literature Fall

An introduction to the masterworks of Spanish literature taken by genre from the Middle Ages to the present. Poetry begins with the *Cid* and includes the ballads, Jorge Manrique, Garcilaso, Góngora, Espronceda, Becquer, Machado and Lorca. Drama will include selections from *Celestina,* and works of Lope, Zorrilla and a modern playwright. Narrative prose will be selected to show the precursors of Cervantes and the novel and short story developed in the nineteenth and twentieth centuries. Mr. Véguez

SI 303 The Hispanic Tradition in Literature: Spanish American Letters from the 19th Century to the Present Spring

The development of Spanish American letters from the 19th century movements of independence from Spain to the avant-garde literature of the present. The works of Sarmiento, Martí, Darío, Vallejo, Fuentes Vargas Llosa, Neruda Asturias and others will be studied with particular consideration given to their search for a Spanish American identity. Staff

[SI 315 El Arte de la Traduccion: Problemas y Soluciones]

SI 320 Introduction to Spanish Culture and Civilization Spring

The course will study important aspects of the development of Spanish culture from ancient times to the present. Representative readings from the works of pertinent writers will be supplemented by related cultural material on slides, tapes, and records. Mr. Véguez

[SI 330 Latin American Culture]

[SI 331 Folklore and Literature]

SI 325 Introduction to Brazil Spring

An examination of modern Brazil in the light of historical influences and sociological and cultural regional differences. Readings will be in Portuguese and will include newspaper and magazine articles, novels, and short stories. Given in Portuguese. Mr. George

[SI 402 Cervantes y el *Don Quijote*]

SI 407 La Novela Española de Pos-guerra Spring

Readings in this class come from the production of Spanish authors since the end of the Civil War. Both writers who remained in Spain and those who left in exile are included. The course concludes with novels of the 1970s. Problems of writing and censorship

are discussed throughout the period studied. Ms. Andreu

SI 419 The Contemporary Spanish American Novel Fall
An analysis of the Spanish American novel of the last two decades. The many themes and innovations of writers such as Carpentier, Cortázar, García Márquez, Rulfo, and Vargas Llosa are explored in detail. Staff

[SI 420 Violencia y pasión]

[SI 425 Hispanic Poetry of the Twentieth Century]

[SI 435 Taller de Teatro]

[SI 442 Seminar: The Nineteenth Century Spanish Novel]

SI 440 Seminar: Women in Hispanic Literature Spring
A consideration of the artistic value and social meaning of selected novels by significant Spanish and Hispanic-American writers who portray the situation of women in particular times and places. Works of the twentieth century are emphasized. Ms. Andreu

SI 500 Independent Study Fall, Spring
The department will consider requests by qualified juniors and seniors to engage in independent work.

SI 700 Senior Research Seminar Fall
For senior majors. Advanced readings in Hispanic literature and the history of Hispanic culture. Through the study of key texts in criticism and history, the course will seek to provide a conceptual framework for the student's previous experience and course work in Spanish.

A SI 700 equivalent alternative may be done, with departmental permission, in the following way. The student will present a written research report of at least thirty pages on a topic related to an advanced course currently offered by the department.
Ms. Andreu and Staff

SI 705 Senior Honors Thesis Spring
For Departmental Honors candidates. Prerequisite: SI 700 or its equivalent and nomination by the department. Nominations will be based on the student's overall record, a minimum B+ average, a thesis prospectus with bibliography (due no later than November 1), and tentative approval of an adviser. The department will announce nomination decisions by November 15. At the end of the semester, each student will give a public presentation on the subject to which his or her paper is directed. Not required for the major. Staff

See also Division of Foreign Languages: FL 251.

ITALIAN

The Italian program offers a variety of courses in language, literature, culture, and civilization. These courses are specifically designed to meet the needs of Italian majors, other foreign language majors and students from related fields such as art, literature, music, sociology, who are working toward a double or joint major.

The aim of the program is to develop in its students not only a working command of the language but involvement in the rich Italian contribution to literature, art, music and philosophy throughout the ages. The department recognizes that some students may wish to use Italian to pursue studies in a historical, sociological and/or political context. By also offering courses in translation, the department hopes to recognize the needs and interests of not only the Italian speaking students but of the College community at large. Italian majors may count courses in translation towards the major by participating in a weekly discussion group in Italian.

The Major: A total of not fewer than eleven courses beyond SI 151 and SI 152 is required including two courses chosen from SI 351, SI 352, SI 353, and also SI 750. The department requires that all majors participate in the Middlebury Italian School during the sophomore-junior summer and the Junior Year Program in Florence. The year in Florence is divided into two parts. The fall term is specifically prepared for Middlebury students with courses in literature, civilization, language and culture taught by Italian University professors. During the Italian academic year (which begins in November) four courses are required. At least two courses are selected by the student from the various departments at the University of Florence thus enabling double and joint majors to satisfy requirements in disciplines other than language and literature. The remaining courses, designed for Middlebury students

and taught by Italian University professors, focus on stylistics, literature and civilization. Requirements for Junior Year Abroad: successful completion of SI 252 and the Middlebury Italian School sophomore-junior summer.

SI 151 Intensive Beginning Italian Fall
Designed to introduce the student to the Italian language and to provide a foundation in both spoken and written Italian. The approach to the language permits comprehensive coverage of the basic structures and vocabulary of contemporary Italian. Filmstrips and taped dialogues create a culturally authentic environment in the classroom. Printed student materials introduce the written word and drill structures through exercises, dictations, and reading texts. The exclusive use of Italian in dialogue situations and vocabulary building encourages the student to develop skills in a personalized context. Mr. Faustini, Miss Vaglio

SI 152 Intensive Beginning Italian Spring
For students who have successfuly completed SI 151 in the fall term, this course provides increased control and proficiency in the language through audio-visual, conversational and drill methods. Short reading selections from contemporary works and discussions enlarge the student's view of Italian life and culture. (SI 151 or equivalent.)
Mr. Faustini, Miss Vaglio

SI 251 Intermediate Italian Fall
Review of the structure and vocabulary of Italian through readings selected from contemporary Italian prose. Conversation, compositions, oral reports help to increase fluency and naturalness as well as prepare the groundwork for a more sophisticated use of language in spoken and written contexts. (SI 152 or equivalent.) Mr. Faustini

SI 252 Advanced Italian Spring
Readings in modern and contemporary literature and related fields, discussions and compositions illustrate the richness and complexity of the Italian language. Materials for the course include a text integrating the writing of major literary figures with a review of grammar and selected works of contemporary writers chosen to introduce the genres, themes and terms of literature. (SI 251 or equivalent.) Mr. Faustini

***SI 290 Dante: The Divine Comedy (in English)** Spring
An introduction for 20th century readers to Dante's *Divina Commedia* and the historical and philosophical perspectives so important to a full understanding of the work. Concentration on the texts of the *Inferno, Purgatorio,* and *Paradiso* with supplementary readings designed to acquaint the reader with the medieval view of life and literature. Readings and discussions in English; one hour tutorial per week required of Italian majors Mr. Faustini

[SI 291 Eros in Boccaccio's *Decameron* (in English)]

[SI 292 From Medieval to Humanistic Thought in Italian Literature (in English)]

(Prerequisite for all 300 level courses and higher is SI 252 or the equivalent.)

[SI 352 Literature of the Renaissance]

SI 353 Romantic and Early Modern Italian Literature
The narrative prose of the Ottocento and Novecento will be examined through works of Manzoni, Nievo, Verga, and Pirandello, with emphasis on the changing views of life and art expressed in Manzoni's 'romanticism', Verga's realism, and Pirandello's definition of the dilemma of modern man.
Mr. Faustini

[SI 375 Italian Cinema: From Fiction to Film (Conducted in English and Italian)]

[SI 459 Modern Italian Fiction: The Role of the Individual in Italian Novels of the Twentieth Century]

SI 550 Independent Study
The department will consider requests by qualified juniors and seniors to engage in independent work.

SI 750 Senior Seminar Fall
For seniors with a major or concentration in Italian. Advanced reading in Italian integrating texts and criticism that will provide a structure for previous studies and/or experience abroad. Mr. Faustini

*Foundations Course

See also Division of Foreign Languages: FL 251

TEACHER EDUCATION

Associate Professor: Maureen Evans (chairwoman) *Lecturers:* Leslie Eckel, Dori Rockefeller, Betsy Thurber *Assistant:* Leslie Eckel

The Teacher Education Program is not a major. However, successful completion of all the requirements of the program will be registered on the student's transcript as a concentration. The program offers students opportunities to study educational issues and to prepare themselves as elementary or secondary school teachers. Upon graduation, students who have successfully completed one of the programs described below are certified to teach in the State of Vermont, whose certificate is recognized by the following states:

Alabama	New Jersey
California	New York
Connecticut	North Carolina
Delaware	Ohio
Florida	Oklahoma
Hawaii	Pennsylvania
Idaho	Rhode Island
Indiana	South Dakota
Kentucky	Utah
Maine	Virginia
Maryland	Washington
Massachusetts	West Virginia
Michigan	Wisconsin
Nebraska	District of Columbia
New Hampshire	Panama Canal Zone

The initial professional certificate, granted by the State of Vermont to graduates who have successfully completed the Teacher Education Program, is probationary in nature. At the end of the first year, if the holder is teaching in Vermont or is a legal resident of Vermont, (s)he may renew the certificate through the State Department of Education. The certificate will not be renewed by Vermont except in these cases. Holders of the initial Vermont certificate who are teaching in another state must qualify for a regular professional certificate according to the requirements of that state.

Students interested in earning teacher certification should notify the Teacher Education office of their interest as early as they can, preferably by the fall of sophomore year. Planning ahead will avoid conflicts later on. Students should plan on devoting a full term (4 credits) to their student teaching and their study of teaching methods.

Requirements for elementary certification (K-6):

1) One term of college science or advanced placement in science.
2) A one-term course in the foundations of education (See description below).
3) A one-term course on the methods and materials of teaching reading and language arts at the elementary school level (TE 205, replaces TE 305).
4) A one-term course on the methods and materials of teaching mathematics at the elementary school level (TE 210).
5) The professional semester:
   TE 404 Curriculum Development in Elementary Education
   TE 405-406-407 Student Teaching in the Elementary School

Note: Students who will be completing all certification and degree requirements by 1980 take TE 305. Students completing all certification and degree requirements in 1981 and thereafter, take TE 205 and TE 210.

Requirements for secondary certification (7-12):

1) A major or its equivalent in a discipline which coincides with a subject taught widely in public secondary schools is necessary for teacher certification. Middlebury College presently recommends students for secondary-level certification in the following areas: English, French, German, Russian, Spanish, Mathematics, Biology, Chemistry, Physics, Earth Science, Social Studies, History and Government. Students who intend to major in disciplines other than the above and who are interested in secondary certification should consult with the Director of Teacher Education as early as possible in their college careers.
2) A one-term course in the foundations of education (See description below).
3) A one-term course on the methods and materials of teaching reading and study skills in secondary school subjects (TE 220).
4) The professional semester:
   TE 414 Problems and Methods of Secondary Education
   TE 415-416-417 Student Teaching in the Secondary School

The Foundations of Education Course Requirement can be fulfilled by any of the following courses:

TE 200: Foundations of Education
PY 225: Child Psychology (See PSYCHOLOGY)
PA 210: Philosophy of Education (See PHILOSOPHY)
PY 226: Psychology in Clinical and Educational Contexts (See PSYCHOLOGY)
SA 315: Sociology of Education (See SOCIOLOGY/ANTHROPOLOGY)

TE 200: Foundations of Education
Fall, Spring

A view of the history of education based upon an exploration of the ideas, institutions, personalities and events which have influenced the development of education in the United States. Emphasis will be placed on the historical basis of contemporary problems and issues in our schools today.

Ms. Rockefeller

TE 205 Methods of Teaching Language Arts in the Elementary School
Spring

An introduction to curriculum theory and design with emphasis placed on the creation, use and evaluation of methods and materials in the teaching of language arts in the elementary school. In addition to the three hours of weekly seminar, students are expected to spend two to three hours per week observing in pre-school through elementary school programs in the Middlebury area.

Ms. Rockefeller

TE 210 Methods of Teaching Mathematics in the Elementary School Fall

An examination of the current trends in the content, methods and materials of elementary school mathematics. In addition to the three hours of weekly seminars, students are expected to spend two to three hours per week observing in pre-school through elementary school programs in the Middlebury area.

Ms. Evans

TE 220 Teaching Reading and Study Skills in Secondary School Subjects Fall

An introduction to curricular and instructional theory as it relates to the teaching of reading and study skills in the secondary school content areas. In addition to the three hours of weekly seminar, students are expected to spend two to three hours per week observing in secondary schools in the Middlebury area.

Ms. Evans

TE 600 Field Experience in Teacher Education: The Teacher Assistant Program. Winter Term Only.

This is an elective course designed to provide practical, in-school experience for students who are interested in exploring the possibility of a career in education. Students will be assigned to work as Teacher Assistants on the elementary or secondary level, usually within the local schools, although arrangements can be made to work in other locales. (Prerequisites: one course in the Foundations of Education, and permission of the Teacher Education Department.)

TE 305 Methods of Teaching Elementary Reading and Mathematics (Open only to class of 1980; not offered after Fall, 1979) Fall

Ms. Rockefeller

THE PROFESSIONAL SEMESTER

Admission to the professional semester is by application only. Application forms may be obtained in the Teacher Education office. Students who intend to student teach during the fall semester must submit their completed applications no later than March 15th of the previous semester. Students who intend to student teach during the spring semester must submit their completed applications no later than October 15th of the previous semester. In order to be recommended for certification, students must complete the student teaching experience (TE 405, 406, 407, or TE 415, 416, 417) with a grade of at least A−.

Prerequisites to the professional semester are as follows:

1. For elementary certification, successful completion of TE 200 (or an equivalent course in the foundations of education) and TE 205, TE 210, and a one-semester course in science.
2. For secondary certification, successful completion of TE 200 (or an equivalent course in the foundations of educatin) and TE 220.
3. For all certification fields, TE 600 is recommended, but not required.

Students accepted for student teaching should register for four courses in the same term as follows:

Elementary Education
TE 404 Curriculum Development in Elementary Schools
TE 405-406-407 Student Teaching in Elmentary Education
Secondary Education
TE 414 Problems and Methods in Secondary Education
TE 415-416-417 Students Teaching in the Secondary School

THEATRE

Professor: Ted Perry, Chandler Potter *Assistant Professor:* Douglas Sprigg (chairman, on leave spring term) *Instructors:* Joanne Klein, Karen Hurley *Resident:* Frank Pike

MAJOR PROGRAM

As a theatre major, a student will choose either the Acting/Directing or the Design/Production emphasis. All majors will elect the following courses:

***TH 116-*TH 126 Masters and Masterworks of Theatre I and II**

TH 214 Directing I

TH 221 Scene Design

TH 326 Modern Drama

EL 321 or 322 Shakespeare

In consultation with their advisers, all majors will elect a minimum of two Production Studios (TH 210, 219, 220, 229) and submit a proposal in their junior year for an independent project (TH 500). The Senior Program (TH 700) will be an advanced independent project, planned in consultation with the student's adviser. These ten courses constitute the core curriculum for the major in Theatre. In addition to this core program, students will elect the following courses in one area of emphasis:

Acting/Directing Emphasis

TH 102 Acting I

TH 202 Acting II or TH 224 Directing II

MU 140 Introduction to Dance

1 other term of dramatic literature

Design/Production Emphasis

TH 213 Stages and Lighting Design

AR 101 Introduction to Art

AR 209 and 210 Introduction to Design

Certain cognate courses are *strongly recommended* as follows:

Acting/Directing

AR 101 Introduction to Art

MU 101 Introduction to Music

PA 233 Art and Philosophy

1 additional term of dance

Design/Production

MU 101 Introduction to Music

2 other terms of studio art

1 other term of art history

FRESHMAN WRITING PROGRAM

The following course satisfies the freshman writing requirement. Look under "American Literature" for a complete description of the program.

TH 106 Introduction to Drama Studies
Fall, Spring

Outstanding plays covering several periods and styles of Western theatre will be considered as models for the exploration of the complex interaction of the playwright, actor, director, scene designer, critic and audience in the theatre. Each text will be approached as a "blueprint for performance," the beginning of a shared endeavor of various creative and interpretative artists that culminates in the remarkable experience of theatre. In keeping with the spirit of the course, class discussions will be supplemented by attendance at theatre events, some exploratory work onstage, and guest lectures by experienced theatre artists. Mr. Pike

DEPARTMENTAL COURSES

TH 102 Acting I Fall, Spring

Rigorous physical and psychophysical exercises attempt to break through the cultural and psychological barriers that inhibit an open responsiveness to impulses, to the environment, and to others. Attempt is made to free personal response within improvised scenes and, eventually, within the narrative structure of a naturalistic scene. Attention is given to various theories of acting technique. Students are required to audition for two departmental shows. (Freshmen and sophomores only/or permission.) Mr. Sprigg, Ms. Klein

***TH 116 Masters and Masterworks of Theatre I** Fall

Using selected great works of dramatic literature as a basis for exploration, this course will introduce concepts in three areas of concern: text, production, and audience. Lectures, discussions, papers, projects, and exams will acquaint students with the plays as vehicles for performance. For premiere and current milieux, we shall examine the ways in which theatrical production clarifies, elaborates, and, indeed, commissions the values of its literature. The course will familiarize students with intensive and varied styles of approach to a script by providing foundations in theatre history, play production, and critical analysis. Ulterior issues will concern the worth of theatre in today's world. The readings for fall term will stress works and periods ranging from the Greeks to Shakespeare. Ms. Klein

***TH 126 Masters and Masterworks of Theatre II** Spring

This course is a continuation of the study begun in TH 116. The work for this term will emphasize major examples of drama in the periods ranging from Shakespeare's death to the present day. Preferably, students who register for this class will have completed the fall portion, but no prerequisite applies to admission. Ms. Klein

TH 202 Acting II Spring

Designed for those students who have had some experience on stage or have otherwise demonstrated a serious interest in performance. The skills introduced in Acting I are given intensive application to different kinds of dramatic texts. Attention will be given to developing physical and vocal resources and to the specific problems of each individual performer. (TH 102 *and* permission.) Ms. Hurley

TH 213 Stages and Lighting Design Fall

This course starts with an examination of the theories underlying the shapes, features and major items of equipment of typical stages. For most of the term, the focus is on stage lighting theory and design practice, leading to the planning and preparation of the light plot for various stage forms. Mr. Potter

TH 214 Directing I Fall

As a group, students will analyze a single play to discover the process involved in preparing a script for production. Attention will be given to production concepts, textual values, auditions, rehearsals, and the structuring of a performance in time and space. During the second half of the course, students will cast and direct a scene to be worked on and performed in class. The practical work is combined with extensive written analysis. (TH 102 or permission.) Mr. Sprigg

TH 218 Introduction to Playwriting Fall

The emphasis of the course will be on developing the craft of playwri(gh)ting, approaching a script as a "blueprint for performance" rather than merely as a piece of literature. Beginning with a series of short exercises, students will explore the possibilities and limitations allowed the writer by the very three-dimensionality of the process of theatre. The exercises, coupled with in-depth discussions aimed at sharpening critical and aesthetic sensibilities, will culminate in the evolution of a short script which will be shared with other theatre artists and—ultimately—a theatre audience as a staged work. Mr. Pike

TH 221 Scene Design Spring

Methods of developing scenic schemes, from the idea through the sketch or model, are examined in relation to the play, the theatre type and the director's concept. Emphasis is on the elements of design, the use of materials for their intrinsic qualities, the organization of space, and style. Exercises and critical discussions lead to a series of projects for specific plays. Experience in drawing not necessary. (TH 116 or TH 126, or permission.) Mr. Potter

[TH 224 Directing II]

TH 326 American Drama Spring

Using the concept of drama as a "blueprint for performance," the course will explore the dramatic and theatrical activity of the United States from eighteenth-century derivative drama to the experimental work of such artists as Richard Foreman and the Bread and Puppet Theatre. Emphasis will be placed on the "giants" of the twentieth century, Eugene O'Neill and Tennessee Williams, but in-class discussions will embark on some more original tangents such as the minstrel show, vaudeville, the musical comedy, dance drama, and the phenomenon of regional theatre. Class work will be supplemented by attendance at theatre performances and movies adapted from stage plays. Mr. Pike

[TH 325 Costume Design]

TH 326 Modern Drama Spring

A study of representative playwrights, from Ibsen and Chekhov to Beckett and Pinter, whose radical experiments with the form and substance of dramatic and theatrical communication have shaped the drama and theatre as it exists today. Attention will be given to the historical/cultural context of the plays to determine what constitutes "modernism" in the theatre, but the major emphasis will be upon a close study of the dramaturgical techniques employed by each playwright and how these techniques are designed to communicate to an audience in the theatre. Ms. Klein

TH 400 Special Topics: Advanced Acting Studio Spring

Close individual attention will be given to developing the acting skills of a select group of experienced performers. The course may culminate in some kind of public workshop or performance. (TH 202 *and* permission.) Ms. Hurley

[TH 416 Twentieth Century Experiments in Theatre]

TH 500 Intermediate Independent Project Fall, Spring

Majors in their Junior year should develop projects and submit proposal forms to project adviser at least two weeks prior to registration. Proposals will conform to *Handbook* "500" Course regulations and the department's *Guidelines for Student Participation.* Staff

TH 700 Senior Project Fall, Spring

Senior majors should develop projects and submit proposals in the Spring of their junior year, at least three weeks prior to registration. Normally, these projects will combine practical production work with written research and serve as a culmination of the student's four years of study. Credit will be received for only a single term's work unless the project is of such scope as to justify the granting of additional credit during Winter Term. Production projects must be developed as outlined in the department's *Guidelines for Student Participation.* Staff

PRODUCTION STUDIOS

TH 210 Production Studio: Acting/Directing Fall

The cast, stage manager, and assistant director work as part of a company interpreting, rehearsing, and performing the play. Those receiving credit can expect to rehearse four to six nights a week. Appropriate written work is required. Auditions for the fall play are held during the first weeks of September; auditions for the winter play are held during the first week of December; and auditions for the spring play are held during the first weeks of class in February. Candidates for stage manager and assistant director should apply to the director of the production. (Permission required.) Ms. Klein, Mr. Sprigg

TH 219 Production Studio: Design/Production Fall

An overview of the production process, from planning to strike. Beginning students pursue their interests in two or more areas; more experienced students concentrate their efforts in one or two areas with more responsibility. May be re-elected for credit after one of these prerequisites is met: either, one design course (TH 213, 221, or 325) or, two extracurricular crews of record. (Permission required. Normally limited to freshmen and sophomores.) Mr. Potter

TH 220 Production Studio: Acting/Directing Spring

Ms. Klein

TH 229 Production Studio: Design/Production Spring

Mr. Potter

FILM COURSES

TH 117 Film Form and Film Sense Fall

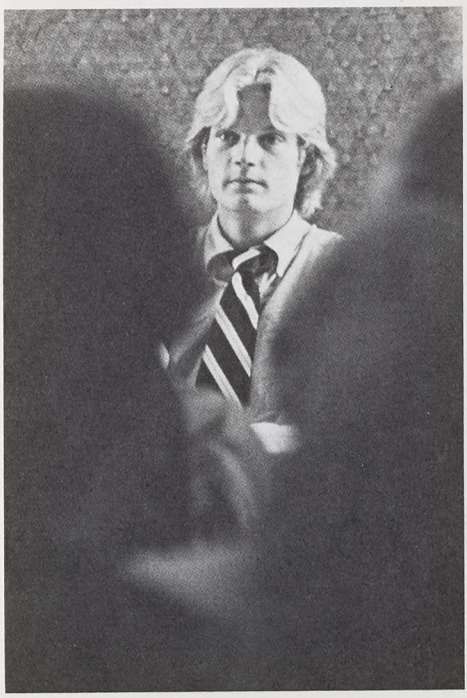
The study of cinema as an examination of the central questions with which cinema is concerned: What is cinema? What is the relation of cinema to reality? What is the nature of the cinematic experience? How is the nature of cinematic meaning informed by formal properties within the medium? How is cinema informed by issues of politics, society, technology, means of production? One film is screened each week. Lecture, discussions. Readings and research papers required.

Mr. Perry

TH 327 The Films of Antonioni Spring

An intensive shot-by-shot analysis of eight films made by Antonioni, including *Cronaca di un Amore, Il Grido, La notte, Eclipse, Red Desert, Blow Up, Zabriskie Point, The Passenger.* Each film is screened once in its entirety, and then studied in detail, as a way of generating an understanding of the meaning of the particular films, how and in what ways this meaning is realized, and, finally, the extent to which each film relates to a larger understanding of the central themes and concerns which pervade all of Antonioni's films. Screenings, lectures and discussion plus readings and research paper are required. (Permission.) Mr. Perry

For other film courses, see AR 240, AR 340 and FR 350.



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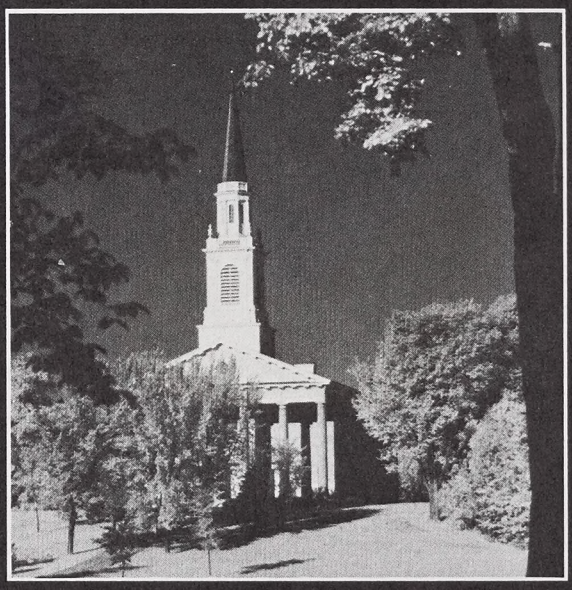

GENERAL INFORMATION

The College

THE HISTORY OF MIDDLEBURY COLLEGE

Middlebury College was an indigenous product of 19th century democracy, financed from the thin purses of local citizens, and expressive of multi-form culture brought from southern New England. Greek and Latin were the core of the early curriculum. A disciplinary system, based on the temper of the law of Moses and the text of Yale College rules and regulations, kept a student's nose to the academic grindstone. Students were their own janitors, laid their own hearth fires, lugged their water from outdoor cisterns, often cooked their own meals. Daily chapel prayers before dawn began the day and a daily chapel service at dusk ended it. Women were admitted in 1883. In 1909, Joseph Battell gave the College the land for the additional residences and facilities which a co-educational College required. The Middlebury College Language Schools of English, French, German, Italian, Russian, and Spanish, which began with a German session in 1915, have achieved international reputation. In 1966, Chinese was added, in 1970, Japanese. The Bread Loaf School of English and the Bread Loaf Writers' Conference (1926) at the College's mountain campus have served as models for similar undertakings in various parts of the country. In 1949, the Graduate School of French in Paris was inaugurated, followed by the Graduate Schools of Spanish in Madrid, German in Mainz and Italian in Florence. In 1977 Middlebury established a program at the Pushkin Institute in Moscow and in the summer of 1978 the Bread Loaf School of English began a graduate program in literature at Lincoln College, Oxford.

EDUCATIONAL PURPOSE

Middlebury College believes in the importance of the liberal arts and the liberal sciences. It believes that the central purpose of undergraduate education is the development of the human mind as broadly and as deeply as possible. The most compelling argument for the liberal arts is that besides providing the pleasure of doing something well, they enlarge the intellect and interests and bring an awareness of the concerns and problems of the rest of the community. The College aims to prepare its 1800 students through study of the humanities and languages, and through the disciplines of the social and natural sciences, to respond intelligently to an ever-changing social, political, and scientific world. In this liberal environment the student comes to an awareness of his cultural heritage, the relation of his special field to his heritage, an understanding of the physical world in which he lives, and an ability to think analytically and critically.

Middlebury College hopes to unlock the capacities and powers of its students in rational thinking, curiosity, imagination, and sensitivity, and to direct these human energies not only toward education as a continuing process of self-education, but also toward social responsibility and leadership. This concept rests firmly on the base of an identifiable liberal tradition, a rational philosophy, and a belief that has been cherished and cultivated for 178 years at Middlebury.

LOCATION

Middlebury College is located on a broad hill overlooking a typical Vermont village and a wide sweep of Champlain Valley, with the Green Mountains visible to the east and the Adirondacks to the west. The campus includes about 1200 acres for buildings, athletic grounds, and Otter Creek shoreline, and a mountain campus ten miles to the east. The United States Government maintains an adjacent area, formerly owned by the College, as part of the Green Mountain National Forest.

Facilities

THE EGBERT STARR LIBRARY

The Library plays a central role in the academic life of the College by providing materials and services to support the teaching and research needs of students and faculty. Its collection which contains approximately 400,000 volumes is available in open stacks, seven days a week. The periodical collection includes current subscriptions to more than 1600 journals. Extensive files of American and foreign periodicals and newspapers dating back to the early 18th century are preserved on microfilm.

The building was erected in 1900 with funds bequeathed by Egbert Starr; its capacity was doubled in 1925, with the addition of two wings given by his son, Dr. M. Allen Starr. The work of remodeling the main building and adding new wings was completed in 1962.

The recently completed Meredith Wing, named in honor of L. Douglas Meredith, emeritus chairman of the Board of Trustees, provides 200 additional seats, including a late night study area, and the shelving capacity of 200,000 additional books. The Library can seat one-third of the student body.

The Music Library, located in Johnson Memorial Building containing recordings and scores, provides facilities for listening and study. Books and periodicals relating to the sciences are housed in the newly created library space in the Science Center.

Middlebury cooperates with other libraries through a teletype network and is a member of the New England Library Information Network (NELINET) a system devoted to computer-assisted bibliographic services.

The Abernethy Library, a special collection of American literature, is built around the nucleus of books and manuscripts bequeathed in 1923 by Dr. Julian W. Abernethy. It now contains over 10,000 volumes, chiefly in first edition, many of them rare, and about 1,000 manuscripts, mostly autographed letters of American authors. Especially strong are the materials relating to Thoreau, Emerson, and other Concord writers. Frank D. Abernethy, brother of the first donor, furnished a room where the collection is housed and where it is available to all students, faculty, and qualified visitors.

A part of the Abernethy Library, the Robert Frost Room has 300 volumes of Frost's books and books on Frost, most of them autographed. In addition, chiefly through the efforts of Mrs. Corinne Tennyson Davids, the collection includes about 2,800 items of such Frostiana as pamphlets and periodicals containing the poet's work, book reviews, news items, photographs, college bulletins, sheet music of his poetry, tape and disc recordings, and original manuscripts.

Special library collections also include early Vermont imprints, materials relating to Vermont, to Middlebury, and to Middlebury College, incunabula, and rare books and manuscripts in various subject fields. The Special Collections of the Starr Library are open weekdays to all interested and qualified users.

A collection unique in its field is the Helen Hartness Flanders Ballad Collection of over 9,500 New England items, including Child Ballads, ballads and folk songs of British and American origin, religious songs, fiddle-tunes and call-sets which have been recovered through oral transmission. There are about 4,400 mechanical recordings. The Flanders Collection also contains rare books, broadsides, chap-books, manuscripts, books on folklore as well as American and British regional collection and current folk song journals.

COMPUTER FACILITY

The College provides open access computing to all students and faculty by means of a Digital PDP-11/45 computer, running the RSTS/E timesharing system. Terminals are available in the Voter Hall Computer Center and in the Science Center during the academic year. Languages supported include BASIC-PLUS, FORTRAN IV, PASCAL, and MACRO-11 (the PDP-11 Assembly Language). There is limited graphics support, as well as a data link to a laboratory based PDP-11 in the Science Center. Although the hardware is relatively new, the concept of interactive computing integrated into the curriculum is not new for the College. As early as 1966 departments in the Social and Natural Sciences began making use of the computer in their courses with consoles on line to a remote computer. Today it is used as a tool for statistical analysis, for simulation, and

Concentration which covers a large part of a core curriculum in Computer Science as recommended by the Committee on Curriculum in Computer Sciences of the Association for Computing Machinery. In addition there is ample opportunity for students to pursue advanced topics as part of independent projects.

BUILDINGS

Atwater and **Davis Houses** (1975), a pair of wood frame dormitories of hyperbolic paraboloid design, each accommodating thirty students, are located immediately north of Cook, Freeman, and Hamlin Halls. They are named for the first two presidents of the College.

Adirondack House (1909) houses faculty offices, the Placement Office, and the Black Cultural Center.

Administration Building (1836). The Old Chapel, built of grey limestone and for years used as the chief recitation hall, was completely remodeled in 1941 and turned over to administrative offices. Here are located the Old Chapel Room and the offices of the President, Vice Presidents, the Treasurer, and Deans, the Comptroller, other administrative offices, and two seminar rooms assigned to general academic use.

Allen Hall (1963) is constructed of slate from Fair Haven, the home of many years of Cecile Child Allen, '01, in whose memory it is named. It houses seventy students.

Battell Halls (1950 and 1955) are located on the approach to the Chateau and east of Pearsons Hall. They are constructed of grey limestone and house two hundred and fifty students.

Bread Loaf Campus. Located twelve miles to the east of the Town of Middlebury, this extensive tract of land and group of buildings, comprised of an inn and surrounding cottages, was willed to the College in 1915 by Colonel Joseph Battell; and has since been augmented by the construction of a library, little theatre, and other housing accommodations, and by the addition in 1977 by gift from Mrs. William H. Upson '15 and the estate of Mr. Upson of Earthworm Manor and its adjoining 180 acres of evergreen trees.

Carr Hall (1951), located on College Street east of Forest Hall, is a two-story limestone building constructed in memory of Reid Langdon Carr '01, a former Trustee. Used for the Fine Arts for nearly twenty years, it was converted in 1968 to use as an infirmary. It was named the Parton Infirmary in 1978 in memory of George F. Parton, Jr., MD, the College's first Medical Director.

The Chateau (1925). Middlebury College was a pioneer in the plan of the separate language house, where the residents use the foreign language exclusively while in the building. The Chateau is one of the oldest and still the largest "maison francaise" in the United States. Its architecture was inspired by the Pavillon Henri IV of the palace of Fontainebleau. The Chateau contains a large salon and a Salon Louis XVI with authentic panels from the Hotel Crillon in Paris and furnishings of the period, a library, classrooms, offices, a dining room and rooms for forty-eight students.

Cook Society (1970), named after Reginald C. "Doc" Cook '24, Litt.D. '60, one of Middlebury's most distinguished faculty members who served on the faculty for forty years and as Director of the Bread Loaf School of English from 1946 to 1964. The Cook Society is one of three student society buildings which bring together the academic, dining and social programs of the College.

Charles A. Dana Auditorium, completed in September 1965, and named in honor of Mr. Dana, benefactor of the College, is a fine modern 270-place amphitheatre, functioning as a part of the Sunderland Language Center, but used by the whole College for concerts, lectures and other academic and cultural meetings.

The Deanery and the Faculty House. The acquisition and restoration of these two brick buildings adjoining the campus, built about the time of the founding of the College, was made possible in 1966 by the gifts of an anonymous donor interested in restoring and preserving outstanding specimens of early American architecture. The Deanery is a guest house for visitors to the campus. The Faculty House provides housing accommodations for members of the faculty and staff.

Forest Hall (1936) is a dormitory constructed of grey limestone and containing sixty-three suites of two rooms and connecting lavatory, attractive reception rooms and offices for the

Development and Alumni Operations. It was built with funds derived from the sale of a large acreage of mountain forest to the Federal Government.

Freeman Society (1970), named after Stephen A. Freeman, Litt. D '66, a faculty member and member of the Middlebury staff for over forty-five years, Director of the Summer Language Schools from 1946 to 1970, and Vice President from 1943 to 1963. The Freeman Society is one of three student societies which brings together the academic, dining, and social programs of the College.

Robert Frost Memorial. The cabin and other buildings which Mr. Frost used as his summer home in Ripton, adjoining the Bread Loaf Campus and known as the Homer Noble Farm, were acquired by the College in 1966 through the gift of a generous benefactor.

Gifford Hall (1940), a five-story grey limestone dormitory overlooking the campus, was the memorial gift of the late Mrs. James M. Gifford, widow of a long-time Trustee of the College, housing one hundred fifty-eight students.

Hadley Hall (1969), named after Egbert C. Hadley '10 LL.D. '68 who served on the Board of Trustees for over thirty years, twenty-four as Chairman of the Board, and who traces back a virtually continuous line of Trustees associated with his family from Thomas Abbott Merrill who joined the Board in 1806 after being a tutor at the College in 1804-05 through Peter Starr (member of the Board 1819-1860), Charles J. Starr (member of the Board 1855-1893), and M. Allen Starr (member of the Board 1898-1932). Hadley Hall is a residence for one hundred and thirty-two students located on a high ridge beyond Pearsons with magnificent views of the Adirondacks and the Green Mountains.

Hamlin Society (1970), named after Cyrus Hamlin, President of the College from 1880 to 1885 and under whose administration women were first admitted to Middlebury. The Hamlin Society is one of three student societies that bring together the academic, dining, and social programs of the College.

Hepburn Hall (1916), the gift of A. Barton Hepburn '71, is a five-story dormitory for one hundred and thirty-nine students, constructed of grey brick on one of the highest points of the campus. It was completely renovated and remodeled in 1958-59.

Christian A. Johnson Memorial Building (1968). The gift of the Christian A. Johnson Endeavor Foundation, presented by Mrs. Johnson in memory of her husband, expresses in its handsome and generous architecture Middlebury's deep commitment to the programs in Art and Music which are located in the building. A large recital hall, the Johnson Gallery for exhibits of art, studios for painting, design, graphics and sculpture, practice rooms for instrument and voice as well as a library and classroom facilities ring the great three-story exhibition hall. The building is located on the site of the former music studios south of Wright Memorial Theatre.

Kelly Hall (1971), a residence hall for seventy-seven students, located on the western edge of the campus and commanding a superb view of both the Adirondacks and the Green Mountains, is joined to Lang Hall by connecting common rooms. Kelly Hall is named after Elizabeth Baker Kelly, L.H.D. '70, who served the College from 1946 to her retirement in 1970 — most of that time is Dean of Women.

The John and Barbara Kirk Alumni House Conference Center (1979), named for John '39 and Barbara Turkington '41 Kirk, is situated at the edge of the College's Ralph Myhre Golf Course, overlooking the Green Mountains. This remarkably versatile and comfortable building serves Middlebury alumni, as well as providing a focal point for the College's expanding emphasis on conferences and seminars.

Lang Hall (1971), named after Fred P. Lang '17, LL.D. '71, Trustee of Middlebury College from 1940 until his death in 1975. "Ted" Lang served his alma mater in roles ranging from football lineman to Treasurer over a span of fifty years. Lang Hall accommodates sixty-one students.

Mead Memorial Chapel (1916). This colonial white marble structure of the New England meeting house type, the gift of John A. Mead '64, stands on the highest eminence of the campus, and the light which shines nightly from its spire is a county landmark. Across its facade are chiseled the words "The Strength of the Hills Is His Also." The chancel has accommodations for a vested student choir and contains a new pipe organ. In the tower is a carillon of eleven bells which are played daily by a student while the College is in session. The small Sunderland Memorial Chapel is used for private devotion and special services.

Milliken Hall (1969), named after the late Gertrude Cornish Milliken '01, Ed.D. '47 who

was the first woman to serve on the Board of Trustees of the College. Located on a high ridge north of Pearsons Hall with a commanding view along the Champlain Valley, it is a residence for one hundred-eleven students.

Munroe Hall (1941). Many departments have their classrooms and offices in Munroe Hall, the gift of the late Charles A. Munroe '96, a former Trustee. The exterior of grey limestone and marble trim conforms with the general colonial architecture of the older buildings.

The Observatory (1937) has a revolving dome and a mounted machine-driven Newtonian type 12-inch reflecting telescope, which maintains an unobstructed view of the skies.

Painter Hall (1815) is the oldest college building in Vermont and a fine example of sturdy New England architecture. It bears the name of a founder and first benefactor of the College. Completely remodeled in 1936, it is a dormitory housing sixty-five students.

Pearsons Hall (1911), a marble building of colonial design which commands a view of both the Adirondacks and the Green Mountains, is a dormitory for seventy students.

Porter Medical Center (1925) is a hospital building with a beautiful view of the Green Mountains, the gift of William H. Porter to the College, for use by the College and the residents of Addison County. In 1960 the building was completely renovated and a substantial wing was added. The Medical Center has a 47 bed capacity, modern equipment, graduate nurses always on duty, resident surgeons, and the College physician and others on call.

Redfield Proctor Hall (1960), named in honor of the late Governor Redfield Proctor, Trustee and benefactor of the College, is the Student Center. It contains student lounges and offices, a Bookstore, the College Radio Station, offices of the Chaplain, Directors of Student Activities and of Food Service, and other facilities. The large dining room, accommodating four hundred students by counter-buffet service, permits the entire freshman class to eat together during their first year in College.

Ross Lounge, connecting Hadley and Milliken Halls, is named in honor of the late Eleanor S. Ross '95, Dean of Women from 1916 to 1944.

Science Center (1968). Located on the lower campus below Warner Hall, the Science Center houses the departments of Chemistry, Biology, Geology, Physics and the Science Library.

The Service Building and Heating Plant. Originally constructed in 1912, the Heating Plant has been increased in capacity and burns both coal and oil to generate steam for distribution to all main campus buildings. The Service Building has quarters for administrative and shop operations. The offices of Associate Treasurer, Business Manager, and the departments of Personnel, Purchasing, and Buildings and Grounds are located here.

Starr Hall (1861) was erected to complete "Old Stone Row" — Painter, Old Chapel, and Starr — and was rebuilt four years later after a fire. It was completely remodeled in 1946 and is a dormitory housing sixty-eight students.

Starr Library (1900), including also the Abernethy Library and other collections, is described on page 190.

Neil Starr Shelter (1963) is described on page 194.

Stewart Hall (1956) is a modern dormitory of Vermont limestone containing accommodations for one hundred and fifty-two students in double rooms and an apartment for a resident. Located on the upper campus south of Hepburn Hall, it enjoys views of both the Green Mountains and the Adirondacks. It is named in recognition of the Stewart family's long history of service to Middlebury College.

Sunderland Language Center (1965), named in honor of the late Edwin S.S. Sunderland '11, Trustee and benefactor of the College, is the headquarters with offices of the Foreign Language Division and the Language Schools. Its modern audio-visual classrooms and the Freeman Laboratory comprising recording and transmission studios, connecting with 61 library-type cubicles equipped with the latest devices for individual language study make this the finest Language Center in the country.

Voter Hall (1913), named after the late Perley C. Voter for many years Professor of Chemistry at the College. Voter Hall after extensive reconstruction in 1970 serves as a residence hall for fifty-eight students, with Data Processing and computation on ground level.

Warner Science Hall (1901) houses the lecture rooms, laboratories, and offices for Psychology, Geography and Mathematics. It was built through the benefactions of Ezra J. Warner, 1861, as a memorial to his father, once a Trustee of the College, and completely renovated in 1977. A modern greenhouse has been added to the equipment for the courses in botany.

The Emma Willard House (acquired in 1959), where Emma Hart Willard established her Female Seminary in 1814, is occupied by the offices of the Directors of Admissions and Financial Aid.

Wright Memorial Theatre (1958), the theatre includes a 400-seat auditorium, a drama workshop, rehearsal rooms, classrooms and faculty offices. The building is named to honor Charles Baker Wright, Professor of Rhetoric and English Literature at Middlebury from 1885 to 1920.

ATHLETIC FACILITIES

The World War II Memorial Field House (1949) is a building 400 feet by 120 feet, located on South Main Street. Adjacent are Paris Fletcher Field House and Porter Field, Wilson Field, and the Fred D. Lang Memorial Field. Accommodations in this building provide for large assemblies, dances, an indoor artificial ice rink, regulation and practice basketball courts, badminton, tennis, and volley ball courts, offices for members of the departments of Physical Education, shower and locker rooms for men and women students, and other facilities. Immediately adjoining are three outdoor platform tennis courts.

Paris Fletcher Field House (1974) is connected with the Memorial Field House and provides an unbroken span of 42,250 square feet of playing and exercise space. It is named in honor of Paris Fletcher '24, LL.D. '76, an emeritus member of the Board of Trustees. Basically a covered playing field, it serves a wide variety of coeducational uses, for physical education classes and recreational, intramural, and intercollegiate sports, including indoor track. The building contains one doubles and six singles squash courts

Beyond Paris Fletcher Field House is the **Ralph Myhre Golf Course of Middlebury College,** an eighteen-hole automatically irrigated course owned and operated by the College. Shower and locker rooms, a pro shop, a snack bar, and lounge space are provided in the John and Barbara Kirk Alumni House Conference Center overlooking the course.

The 3.5km John "Red" Kelly '31 Trail was built around the course in 1976. It is lighted in the winter for night cross country skiing and used at other times of the year for jogging and cross country running.

The Porter Athletic Field of about eighty acres contains a quarter-mile cinder track, a baseball diamond, the football field, practice fields, bleachers, and playing and practice fields for both men's and women's teams. The Fred Davis Lang Memorial Field, situated east of the Memorial Field House, consists of approximately four acres of playing fields available for intramural sports. The Wilson Field, given by the late Colonel Joseph A. Wilson '16, is used for soccer and lacrosse contests. The campus also has a large field area for women's field hockey and lacrosse. Sixteen outdoor tennis courts are located on the main campus and three at Bread Loaf.

The mountain campus includes the **Middlebury College Snow Bowl** containing a 4200-foot double chair lift, three Poma ski lifts, fourteen slalom and downhill trails and slopes, and three jumps. The 3200-foot Poma lift was the first installed by any college and the 55-meter Gignac Memorial Jump is the largest collegiate jump in the country. The **Neil Starr Shelter,** which serves as a base building, contains first aid and food service facilities, and a library reading room. Its glass-walled main floor, balcony, and terrace afford a magnificent view of the lifts, slopes, and jumps. Cross country ski trails connect the Snow Bowl with the Bread Loaf Campus, where a 15-kilometer racing trail and a cross country ski center are maintained.

McCullough Gymnasium (1912) contains facilities for squash and handball, dance, and other indoor activities. Offices, lecture room, lounge, and locker rooms are included.

The Arthur M. Brown Swimming Pool (1963), meeting N.C.A.A. competition requirements, is for the use of the entire College. It was added to the McCullough Gymnasium through the generosity of Mr. and Mrs. John Kruesi and a bequest of Malcolm T. Anderson '25, and is named for Arthur M. Brown, Director of Athletics from 1918 to 1956.

Expenses and Financial Assistance

EXPENSES

No precise statement can be made regarding the cost of a year at Middlebury. The College offers a limited amount of financial aid to students with demonstrated need. The Director of Financial Aid endeavors to assist undergraduates in finding remunerative work both on the campus and in town.

A fairly accurate estimate of a year's expenses may be made from the following list of standard charges for 1979-1980:

Comprehensive Fee	$6,900
Student Activities Fee	38
Sickness Insurance	37

The Comprehensive Fee includes tuition, room, board, health services and certain fees in respect to special obligations of the College. Credits for students accommodated in one of the six fraternities or excused by the Dean of Students from residing or eating in college facilities will be $600 room and $712 board. Travel, textbooks, clothing, social dues and assessments must also be considered in estimating a year's expenses.

The Comprehensive Fee for the year is billed in two installments, the first due August 31, and the second January 31. The applicable portion of matriculation and re-enrollment deposits, financial aid grants, student loans, and of any payments received in advance from such sources as Insured Tuition Payment Plan appear as credits on term bills; as do the aforementioned credits for those not residing or taking their meals in College facilities.

For graduate and special students, tuition is charged at the single course rate of $625. For students doing work in practical or applied music, the established fee for private instruction will normally be assessed. An administrative fee of $100 will apply to each 555 Course which the Administration Committee approves.

The Comprehensive Fee includes a provision for the fixed expenses of the Student Societies. For Federal Income Tax purposes $73 may be included as medical expense when deductions are itemized. This portion of the Comprehensive Fee provides for various health services including enrollment in a one-year accident insurance plan. The Comprehensive Fee also includes the $42 Student Center Fee.

Each matriculating student is issued an identification card intended to serve for his entire undergraduate course. When, on authorization of the Dean of Students, a lost identification card is replaced, a charge of $5 is made.

A rebate of $21 per week may be allowed for absence from dining halls for two consecutive weeks or longer up to a maximum of $178 per semester when prior notice of such absence is given to and approved by the Dean of Students.

No refund of fees is made in the case of dismissal. In other cases of absence or withdrawal, refunds may be considered in accordance with the policy below. A student who withdraws voluntarily from College after classes begin is refunded for board only at $12 per week.

Students who withdraw for medical reasons or serious emergencies shall forfeit the enrollment deposit ($100 for freshmen; $200 for upperclassmen) but may receive refunds for any additional amounts paid as follows:

1st week of term	80% of additional amounts paid
2nd	60%
3rd	40%
4th	20%
thereafter	Board only at $12 per week

Applications for refund should be submitted to the Dean of Students and to the extent granted will be remitted by check from the Comptroller to the person who paid the charges to which the refund is applicable.

To the extent any refund authorized represents in whole or in part the proceeds of a Guaranteed Student Loan, the student may authorize remittance by the College to the lender or holder of the loan of all or any portion of the refund. In this event the student will be given written notice of such disbursement made on his behalf out of the proceeds of the refund.

A fee of $100 is charged students who repeat the General Examination or who resubmit their thesis and who are not enrolled in the College.

Entering students pay $100 when notifying the Admissions Department of their intent to matriculate. This deposit will be applied to the charges of the first term and is not refundable. Returning students pay a re-enrollment deposit of $200 in the Spring to be applied to the charges of the succeeding term and to be forfeited if the student fails by June 15 to notify the Dean of his intention not to return for the succeeding term.

Students may not receive grades, nor expect honorable dismissal until all financial accounts are settled.

The right is reserved to change quoted charges if necessary. The College assumes no responsibility for loss of student property through fire, theft, or disappearance.

The College issues a transcript of record on request to students wishing to transfer or to secure a statement of their course credits for any other purpose. One copy of the college record is furnished free. A fee of one dollar is charged for a duplicate of the transcript. To students who are financially indebted to the College, or to those who have not surrendered Identification Cards on leaving college, no transcript will be issued until satisfactory arrangements have been made with the Comptroller. No fee is charged for transcripts submitted to any branch of the Armed Services.

FINANCIAL AID

The goal of the Financial Aid Program at Middlebury College is to help those students with a demonstrated need who would otherwise not be able to attend college.

Subject to continuing eligibility, Financial Aid, normally including a provision for a student loan plus a grant and/or job (jobs are not usually assigned to Freshmen), is awarded for one academic year at a time. Students should not apply for any specific grant (scholarship) as appropriate assignment will be made by the College.

Middlebury College is a member of the College Scholarship Service, an activity of the College Entrance Examination Board at Princeton, New Jersey. Financial Aid awards are based on analysis by the College Scholarship Service (CSS) of the Financial Aid Form (FAF) and on the College's review of the CSS determination of need.

The only financial aid application that Middlebury College requires is the Financial Aid Form (FAF). Parents of applicants for admission who wish to apply for financial aid should submit the FAF directly to the College Scholarship Service (CSS) between January 15 and January 31 of the entering academic year; the FAF application may be secured from secondary school guidance counselors. *Early Decision* candidates must file the FAF with the CSS between January 1 and 15 of their senior year in secondary school. Upperclass renewal forms for financial aid (FAF) must be filed annually by March 15 with the CSS.

Middlebury participates in the National Direct Student Loan, College Work-Study and Supplemental Educational Opportunity Grants Programs. Awarding of loans, jobs and grants under these Federally-sponsored programs is handled by the College Financial Aid Office. The College also certifies applications for the Federal Basic Educational Opportunity Grant Program (BEOGP), the various State Guaranteed Insured Loan Programs, and in special cases will also certify applications for loans from the United Student Aid Funds Program. Students are *required* to apply to their home-State Grant Program as well as the Federal BEOGP.

As far as possible, the financial aid to upperclassmen will include the offer of campus employment. Students can expect to be assigned jobs as waiters or waitresses, research or library assistants, clerk-typists, student union desk clerks, etc., under the Federal College Work-Study Program. Laundry, newspaper, food, novelty, etc. concessions are also student-operated. The better-paying campus jobs are incorporated into the Financial Aid Program, and there are a number of lower-paying jobs that interested students can apply for on their own initiative.

The College assumes that all Financial Aid recipients will make a contribution from summer earnings towards their College budget. The *net* summer earnings expectancies for both men and women are $700 for the pre-Freshman year and $800 for the pre-Upperclass years.

Correspondence concerning financial aid to applicants for admission should be addressed to the Director of Admissions. Similar inquiries by upper-class students should be made at the Office of Financial Aid. A pamphlet outlining the College's Financial Aid policies in detail is available from the Director of Financial Aid, Emma Willard House.

The Middlebury College Financial Aid Policy complies with the 1964 Civil Rights Act and with Sec. 504, Rehabilitation Act of 1973. It does not discriminate against any individual on the basis of race, color, sex, religion, national or ethnic origin, or handicap.

Note: *A Financial Aid Form Supplement is needed with each Financial Aid Form.*

Scholarships

NAMED AND ENDOWED SCHOLARSHIPS

The following is a list of endowed and other named scholarships at Middlebury College. Candidates for financial aid need not apply for a specific grant. By applying for financial aid, an applicant will automatically be considered for an award from the appropriate scholarships listed below, or from the general scholarship fund.

The Charles A. Dana Scholarships are available to qualified sophomores, juniors, and seniors. The purpose of these scholarships is to identify and encourage students of good character with strong academic backgrounds who have given evidence of potential leadership traits during the freshman year. The scholarships range from an honorarium of $100. for those without financial need to the cost of tuition for those requiring such support. Each year approximately fifteen new Charles A. Dana Scholars are selected. The Charles A. Dana Foundation was established in 1950 with the scholarship program as one of its significant activities. These scholarships are among the highest honors which are awarded to students.

Betty Jean Aitchison '45 Scholarship Fund. $277,450.89. Established in 1975 under the will of Adam G. Aitchison in memory of his daughter, Betty Jean Aitchison '45. Income to be used to provide annual scholarships for worthy women students without regard to race, color, or creed.

The Cecile Child Allen Student Aid Fund. $85,910. The income to be awarded to one or more junior or senior women who need financial aid, and who are "the kind of women that Middlebury would be proud to see represent the College in the outside world."

Borden and Louise Roberts Avery '39 Fund. $6,647. Established in 1974 by Mr. and Mrs. Borden Avery, both of the Class of 1939, income to be used for partial tuition scholarships to promising young people from middle income families who need some aid. Students from Vermont are to have preference.

The Cornelia W. Bailey Fund. $33,500. Established in 1929 under her will for students of the Protestant faith, residing in Vermont.

The Baldwin Fund. $28,122. Received in 1871 from the estate of John C. Baldwin, Esq., of Orange, N.J., for men.

The Cesare Barbieri Endowment Fund. $45,000.

The Joseph Battell Scholarships. $100 awards annually, for worthy young women of Addison County.

The Ludwig C. Baumann '53 Memorial Scholarship Fund. $10,238. Established in 1976 by the gifts of Ludwig E. and Elizabeth P. Bauman in memory of Major Ludwig C. Baumann, USAF, lost in the service of his country in Vietnam on January 30, 1969.

Lea Z. Binand Scholarship Fund. $2,307.35. Established in 1956 by Mrs. Stella L. Christie. Income to be used annually for scholarship aid in the French Summer School.

Edward L. Bond Jr. Memorial Scholarship. $23,050. Established in 1962 in memory of Edward L. Bond Jr. '62 by his parents and friends. Income is used to aid a deserving junior or senior man possessing the qualities of campus citizenship and leadership exemplified by Ted Bond '62.

Boston Middlebury Alumni Association Scholarship Fund. $1,500. Established in 1978 as a building scholarship. Income to be used for annual student aid with first preference given to Boston area residents.

The Ezra Brainerd Scholarship. $5,010. Established in 1961 by gift of Ezra Brainerd, Jr. in memory of his father, Ezra Brainerd, Class of 1864, President of Middlebury from 1885-1908. Income is used to aid a deserving student, preferably one who is a resident of Vermont.

The Bread Loaf Writers' Conference Endowment Fund. $114,863. Established 1960 by the gifts of Writers' Conference attendees and friends. Income used to provide fellowships, lectureships, and scholarships at each year's session of The Bread Loaf Writers' Conference.

Margaret T. Bridgman Memorial Fund. $12,402.50. Established in 1974 by her husband and friends. Income to be used for student aid at the Bread Loaf Writers' Conference.

The Elbert S. and Anna H. Brigham Scholarship Fund. $474,820.94. Established in 1953. Income to be used for scholarship awards to deserving men or women students who are residents of the State of Vermont. Tenable for four consecutive years.

Russell D. Brown '29 Memorial Scholarship Fund. $7,906. Established in 1976 by bequest of Russell D. Brown '29. Income to be used for scholarship aid.

Salvatore J. Castiglione Scholarship Fund. $4,841. Established in 1972 by Italian School Alumni. Income to be used annually for scholarship awards to worthy students in the Italian Schools.

Juan A. Centeno Memorial Fund. $2,548.95. Established in 1949 by students of the Spanish School. The income is used to provide a scholarship for a worthy student in the Spanish School.

Stella Christie Scholarship Fund. $3,131.97. Established in 1945 by Mrs. Perla P. Conover, the income to be awarded as scholarship aid to deserving students in the French Summer School.

The Charitable Society Fund. $4,012. Established in 1832, for men.

Class of 1918 Scholarship Fund. $4,049. Established in 1978 by gifts of the Class at the time of the 60th Reunion. Annual income and any augmenting gifts and bequests to be added to the principal until the total endowment is $10,000. Then annual income to be used for a Class of 1918 Scholarship award to a deserving and needy student.

Class of 1930 Scholarship Fund. $4,673. Established in 1976 at the 50th class reunion. Income to be used in support of financial aid.

Class of 1937 Fund. $12,342. Established in 1962 by the Class of 1937 at its 25th Reunion. Annual income designated for scholarships at the 40th class reunion in 1977.

Class of 1947 Memorial Scholarship Fund. $7,346. Established in 1978 at the 30th class reunion. Income to be used in support of financial aid with preference given to students from middle income families.

Class of 1948 Scholarship Fund. $15,823. Established in 1978 at the 30th class reunion. Income to be used in support of financial aid.

Class of 1949 Scholarship Fund. $34,601. Established in 1978 at the 30th class reunion. Income to be used in support of financial aid.

Class of 1951 Fund. $13,591. This Fund was established in 1976 at the 25th class reunion. Income to be used in support of financial aid with preference given to sons and daughters of alumni from middle-income backgrounds.

Class of 1952 Scholarship Fund. $42,402. Established in 1977 at the 25th class reunion, income to be used in support of financial aid with preference given to students from middle-income families.

Class of 1953 Scholarship Fund. $33,883. Established in 1978 at the 25th class reunion. Income to be used in support of financial aid with preference given to qualified descendants of members of the class.

Class of 1963 Scholarship Fund. $10,843. Established in 1978 at the time of the 15th class reunion. Income to be used in support of financial aid.

The Chester H. Clemens '33 Memorial Scholarship Fund. $2,869. Established in 1973 by gifts of family, classmates and friends in memory of Chester H. Clemens '33. Income to be used annually for scholarship awards to worthy young men and women.

The Chester H. Clemens '33 and Eleanor B. Clemens '32 Fund. $35,138. Established in 1971 by the late Chester H. Clemens '33. Subject to reservation of life income.

Winifred Coffin and Beatrice Taft Scholarship Fund. $13,721.33. Established in 1969 by the bequest of Miss Beatrice K. Taft of the Class of 1900 in her name and that of her twin sister, Mrs. Winifred Taft Coffin of the Class of 1900. Income to be awarded to a deserving girl from New Hampshire.

Almy D. Coggeshall '40 Scholarship Fund. $6,291. Established in 1974 by Almy D. Coggeshall '40.

Colby Fund. $30,038.44. Established in 1970 by the bequest of Mabel Colby. Income to be used for deserving and needy students from the towns of Lincoln, Sudbury, Orwell and Bristol, Vermont. The student selected for this aid shall be chosen from the towns in the foregoing order.

Reginald and Juanita Cook Scholarship Fund. $46,726. Established by gifts from alumni and friends of the Bread Loaf School of English. Income to be used for scholarships at the Bread Loaf School of English.

Edward J. Cooperstein '46 Scholarship Fund. $5,000. Established in 1972 by Edward Cooperstein '46. Income to be awarded annually to worthy students.

Kay Corrigan Scholarship Fund. $1,000. Established in 1966 by a bequest under the will of Miss Agnes T. Danehy. Income to be used for scholarship awards to deserving women students in the College who exemplify the character of Kay Corrigan, '56.

The Annie L. Cox Scholarship Fund. $2,500. Established for "a worthy student manifesting decided ability in some line of study, preferably a student of Italian parentage."

Janet C. Curry '49 Scholarship Fund. $12,000. Established in 1977 by Janet C. Curry '49. Annual income to be used for a scholarship award with first preference to a senior woman working for honors in biological sciences.

George C. Dade '15 Memorial Scholarship Fund. $25,000. Established in 1965 by the gift of Mrs. George C. Dade to provide scholarship aid for worthy young men and women.

The Charles A. Dana Scholarship Fund. $156,500. See first page of scholarship listings.

The Sam P. Davis '21 Fund. $25,684. Established by the gifts of Sam P. Davis '21 in 1966. Income to be used in support of emergency student aid.

The Wilfred E. Davison Scholarship Fund. $1,632. Established in 1936 by bequest of Frank P. Davison of Cabot, for men.

Clifford T. Day Undergraduate Scholarship Fund. $1,229.89. Established in 1970 by the bequest of Clarence T. Day. Income to be used to assist an undergraduate male student who maintains good grades and has evidence of good character and future leadership.

The Alcide De Gasperi Scholarship Fund. $137.50. Established in 1972 by the gift of Donald St. J. Sozzi, income to be used for scholarships for the Italian Summer School.

The Dr. Ralph B. DeLano Scholarship Fund. $10,000. Established in 1950. Subject to a reservation of life income.

Delta Kappa Epsilon Scholarship Fund. $10,523. The income to be awarded to a member of the Delta Kappa Epsilon Fraternity at Middlebury College.

Frederick C. Dirks '30 Scholarship Fund. $20,774. Established in 1978 by gift of Frederick C. Dirks '30. Income to be used for a scholarship award to an undergraduate majoring in the field of Economics.

Constance Barker Diss Student Aid Fund. $357,143. Established in 1967 by a bequest under the will of Mrs. Constance Barker Diss, 1900. Income to be used for financial aid to deserving students.

The Erwin Ewald Drost Memorial Fund. $750. Established in 1944 by Mrs. Marguerite Jahr, Mrs. Winnie Wiesenthal, Mrs. Clara Comstock, and Miss Emma C. Drost, in memory of their brother, Erwin Ewald Drost, class of 1924.

Dean S. Edmonds Scholarship Fund. $57,848.02. Established in 1953. "Income from fund to be used by Middlebury College as it shall determine as financial aid to students at Middlebury College, giving preference to male students and to students of the sciences, more particularly physics, including electronics."

The Eunice S. Eldredge '11 Fund. $10,343.44. Established by Mrs. Eunice Smith Eldredge '11. Subject to reservation of life income.

Grace M. Ellis Scholarship Fund. $3,914. Established in 1966 by the Worcester County Alumnae Association in memory of Grace M. Ellis. Income to be used each year for a scholarship award to a woman undergraduate with preference to a woman from Worcester County, Massachusetts.

Sidney Ender Scholarship Fund. $5,000. Established in 1974 by Sidney Ender. Income to be used for scholarships for Canadians with preference for students from Quebec.

The Jerome C. and Debora M. Eppler Scholarship Fund. $22,774. Established in 1977. Annual income is to be used to provide financial aid to needy and worthy students at Middlebury College.

The Katherine Ball Everitt '17 Memorial and Helen E. Law Scholarship Fund. $10,722.31. Established by George L. Everitt. Subject to reservation of life income.

The Fairbanks Scholarships. $2,000. Established by Thaddeus Fairbanks, Esq., of St. Johnsbury, for men.

'45 Discretionary Scholarship Fund. $6,973. Established anonymously in 1973. Income to be used annually for partial tuition scholarships to young people whose attendance will contribute to broadening the socio-economic composition of the student body attending Middlebury. Thus, it is not intended primarily to assist those in severe financial need, but is to be utilized to influence the mix of students attending Middlebury by assisting those who need at least some financial aid.

The John Albert and Sophia Warner Fletcher Fund. $163,500. Established in 1977 by gift of Paris Fletcher '24 to honor his father and mother. Income to be used preferably for students from middle income families.

Rollo J. Francisco Scholarship Fund. $17,919.70. Established under the will of the late Rollo J. Francisco of Rutland, Vermont, in 1951.

E. Chester "Ben" Franklin '21 Scholarship. $20,000. Established in 1962 by Miss Helen A. Franklin in memory of her brother. First preference is to be given to descendants of Ernest Chester Franklin and then to undergraduates maintaining high academic standards and participating in the athletic program of the College.

The French Center in New England Fund. $22,332.63. Established in 1976 by the gift of the French Center in New England. Income to be used annually to provide scholarships for students studying at the Middlebury French School who are French teachers or are seeking professional preparation as future teachers of French.

Friends of Skiing Scholarship Fund. $7,525. Established in 1973-74 by many of Middlebury's Friends of Skiing. Income to be used for needy students who contribute to the College's ski program.

Robert Frost Fellowship at the Bread Loaf Writers' Conference. $10,000. Established in 1978 by CBS Inc. Income to provide a fellowship to be awarded annually to a promising young poet.

Eben J. Fullam Scholarship. $10,000. Given in memory of Eben J. Fullam of the class of 1895 by Mrs. E. J. Fullam of Springfield, Vermont.

Alice Brooks Fuller Scholarship Fund. $15,000, "to aid worthy women preferably from Worcester County, Massachusetts."

John Hamilton Fulton Memorial Scholarship Fund. $330,098.38. Established in 1964. Income to be awarded as named scholarships for young men who are graduates of Athens College, Greece, and for young men of Scottish parentage who are graduates of schools located in Scotland or for any other qualified students.

The Marion Gallagher Scholarship Fund. $10,000. Established in 1977 by the bequest of Judge Elbert T. Gallagher '23. Annual income to be used to provide scholarships for worthy students.

Leon and Una Gay Scholarship Fund. $10,866.19. Established in 1964 by Leon S. Gay, income to be used for scholarships with preference to be given to students who are residents of the State of Vermont.

The William W. Gay Fund. $5,000. Established in 1929 by the gift of Mrs. Frederic F. Van de Water, Jr., in memory of her father, William W. Gay, class of 1876.

Joan F. Giambalvo Scholarship Fund. $735. Established in 1973 by Miss Adeline G. Giambalvo. Income to be used annually for scholarship aid in the Italian School.

Edward N. Gosselin Scholarship Fund. $18,039. Established in 1966 by Edward N. Gosselin, '15. Income to be used for scholarship awards to a senior or junior, or both, with priority to candidates from first: Rutland County, Vermont, second: State of Vermont, and third: State of Illinois.

Ivan D. and May W. Hagar Scholarship Fund. $59,783.89. Established in 1972 under the wills of May W. Hagar and Ivan D. Hagar '09. Income to be used annually for scholarships.

Charles Emerson and Nellie Blakely Harris Memorial Scholarship Fund: $2,000. Established in 1965 by H. Blakely Harris in memory of his grandparents. Income to be used for scholarship awards to worthy students.

The Homer and Katherine Harris Fund. $3,000. Established in 1965 by Mr. and Mrs. Homer B. Harris, '20 and '18, subject to reservations of life income, after which principal will be added to the Charles Emerson and Nellie Blakely Harris Memorial Scholarship Fund and the income used by and in support of the College for scholarship awards to worthy students.

Joel B. Harris Scholarship Fund. $23,000. Made available in 1937 under an annuity contract with Charles P. Harris, for the benefit of male students of the College.

Benjamin L. Haydon Scholarship Fund. $56,831.12. Bequest under the will of Elsie Haydon Cornell. "Income to be used by Middlebury College scholarships." Benjamin L. Haydon graduated from Middlebury College in 1897.

The Charles B. R. Hazeltine Fund. $14,043.35. Established in 1923 "for assisting worthy students."

The Burt A. Hazeltine Memorial Scholarship Fund. $20,000. Established in 1976 by an anonymous gift to honor Burt A. Hazeltine, who served Middlebury College with distinction as Professor of Mathematics from 1924 to 1956, and as Dean of Men from 1926 to 1939. Annual income to be used to provide scholarship assistance to needy and worthy students with preference given to those majoring in mathematics.

Richard A. Heine Memorial Scholarship Fund. $6,810. Established in 1964 in memory of Richard A. Heine '64 by his parents and friends to assist a deserving undergraduate at Middlebury to complete his education.

The Waldo H. Heinrichs Scholarship Fund. $15,880. Established in 1956, the income to be awarded to a man or woman in the sophomore year for use in the junior year.

Elizabeth A. Hickcox and Frank B. Hickcox Memorial Scholarship Fund. $17,888. Established in 1965 by members of the Hickcox family, and friends.

The John A. Howe Scholarships. $3,000. Bequeathed by John A. Howe, Esq., class of 1853; the income first available for his descendants, and then under certain conditions for students from Poultney.

Moses G. Hubbard '13 Scholarship Fund. $13,858. Established in 1969 by the bequest of Moses G. Hubbard '13. Income to be used as scholarships or other financial assistance to deserving students.

Merrill L. Jenkins '15 Scholarship Fund. $444.79. Established in 1973 by the bequest of Mrs. Florence E. Jenkins in memory of her husband. Income to be used for scholarship award as a part of the general scholarship program until the principal reaches $10,000.

Christian A. Johnson Memorial Scholarship Fund. $50,000. Established in 1964, for upperclass students with preference being given to those majoring in Economics.

The Charles S. (Casey) Jones '15 Scholarship Fund. $10,000. Established in 1977 by the bequest of Charles S. (Casey) Jones '15.

The Frederica V. Jones Scholarship. $25,000. Established in 1950. The gift of Vanderbilt Webb and Cyril H. Jones. Income to be annually used as a scholarship for the benefit of any man or woman who may in the judgment of the college authorities "be deserving of this award."

The Kappa Delta Rho Scholarship Fund. $5,374.68. For worthy male students of the two upper classes majoring in science or mathematics, with preference being given to members of the Kappa Delta Rho Fraternity.

Joseph P. Kasper Scholarship. $27,900. Established in 1962 by the directors of the Associated Merchandising Corporation to honor Joseph P. Kasper '20 on occasion of his retirement from that Company as Chairman of the Board. Income awarded annually in equal amounts to an undergraduate man and woman.

Elizabeth B. Kelly Fund. $7,961.66. Established in 1970. Income to be used for scholarships for women students.

The John M. Kirk, Jr., Scholarship Fund. $52,968. Established 1975. Annual income to be used to provide scholarship assistance to Middlebury students following completion of their freshman year who have demonstrated by their performance in the classroom and laboratory and by their efforts in competitive sports that they are student athletes.

John M. Kirk, Jr., Memorial Scholarship at the Bread Loaf School of English. $25,035. Established in 1976 by Mr. and Mrs. John M. Kirk, Sr., in memory of their son. Annual income to provide scholarship assistance to a student at the Bread Loaf School of English who shares his commitment to scholarship and to teaching.

The Arnold R. LaForce '35 Scholarship Fund. $10,937.50. Established in 1976 by the gift of Robert F. Thompson to honor Arnold LaForce upon his election as Chairman of the Board of Trustees. Annual income for scholarship assistance for needy and worthy students from middle-income families.

The Sanford H. Lane Memorial Scholarship Fund. $2,000. Established in 1945, for men students.

The Ted Lang, Jr. Memorial Scholarship Fund. $53,202. Established in 1945 by Mr. and Mrs. Fred P. Lang of the classes of 1917 and 1915, in memory of their son, who lost his life on the battlefield in France during World War II. Income to be awarded annually to men in their Junior and Senior years who have had to work to assist themselves in acquiring their Middlebury education, and who have made a contribution to their College in extracurricular activities, preferably athletics. It is the donors' intent that the award permit less financial burden on the awardees in their upper class years in recognition of their determination to obtain their Middlebury degree by their own efforts and initiative.

The Fred W. Lapham '43 Fund. $14,583. Established in 1971 by Frederick W. Lapham, Jr., '43. Subject to reservation of life income.

Edwin W. Lawrence Scholarship Fund. $123,595.81. Established by gifts from Edwin W. Lawrence in memory of his father, George Edwin Lawrence, Class of 1867.

The Claude Levy Scholarship Fund. $4,482. Established in 1969. Income to be used by students enrolled in the French Summer School.

The Literary Fund. $740. Established in 1835, for men.

Dr. Nicholas Locascio Scholarship Fund. $21,603.33. Established in 1970 by Dr. Nicholas Locascio and others for scholarship aid to students in the Italian School.

Hazel MacLeod Fund. $10,575.56. Established in 1970 by the bequest of Hazel MacLeod Wills. Income to be paid to some worthy woman student for expenses other than tuition and board.

Andrew C. Marchbank '65 Memorial Scholarship Fund. $67,703. Established by the gifts of his parents and his uncle, Adrian Leiby '25. Income to be awarded annually to a worthy man possessing the qualities of campus citizenship and leadership exemplified by Andrew Marchbank '65.

Robert J. Marony Fund. $127,025. Income to be used annually for the support of education at Middlebury for underprivileged young men and women of the United States.

The Buren H. McCormack Scholarship Fund. $16,007.50. Established in 1972 by the bequest of Buren H. McCormack and the gifts of his family and friends. Income to be used annually for scholarship aid with preference given to a student interested in journalism.

Gertrude Cornish Milliken Scholarship Fund. $18,638. Established in 1964 by gifts of the Middlebury Alumnae Association and Alumnae club to honor Mrs. Gertrude Cornish Milliken '01. Income to be awarded to undergraduate women.

The Levi P. Morton Scholarship. $2,000. Established by Hon. Levi Parsons Morton of New York City, for men.

The National Bank of Middlebury Scholarship Fund. $6,000. Established by the Bank at the time of the College's 175th Anniversary. Annual income to be used to provide scholarship assistance for a worthy student from Addison County attending Middlebury College.

Walter J. Nelson '32 Scholarship Fund. $30,602.20. Established in 1972 by John M. Kirk '39 and friends to honor "Duke" Nelson on his retirement from 30 years of coaching and service as Director of Intercollegiate Athletics at Middlebury College. Income to be awarded to student athletes in their Junior and Senior year, excelling in one or more sports and demonstrating good campus citizenship.

Werner Neuse Scholarship Fund. $6,702.59. Established for Scholarship aid to students in the German School.

The New Jersey Student Aid Fund. $400. For men from New Jersey.

ANNA AND LUKE J. NOLFI SCHOLARSHIP FUND. $2,950. Established in 1970 by Anna and Luke J. Nolfi. Income to be used to award an annual scholarship to a student enrolled in the Italian Summer School or the Graduate School of Italian in Italy.

SIDNEY NORDENSCHILD, SR., SCHOLARSHIP FUND. $12,778. Established in 1967 by the partners of Sidney Nordenschild, Sr., to honor his fifty years with the company and his sixty-fifth birthday. Income to be used for scholarships.

THE BERTHE O. NORMANO SCHOLARSHIP FUND. $6,000. Established in 1976 by George G. Nichols, Jr. Income to be used annually for a scholarship at the Russian School.

PETER ODABASHIAN MEMORIAL SCHOLARSHIP FUND. $1,210. Established in 1974 by gifts of his wife, students, and friends, income to provide scholarship assistance for students at the Russian School.

THE HEWITT PAGE SCHOLARSHIP FUND. $3,984. Established in 1964 by the gift of Hewitt E. Page '33. Income to be added to principal for first ten years, after which it shall be used with restrictions under the direction of designated college officials.

CORNELIUS R. PALMER '25 FUND. $6,200. Established by the gifts of Mr. Cornelius R. Palmer '25 in 1969. Subject to reservation of life income after which the income is to be used for scholarships for underprivileged boys and girls with preference given to graduates of schools located in Cape May County, New Jersey, or New York City.

THE DR. GEORGE F. PARTON, JR., MEMORIAL SCHOLARSHIP FUND. $16,465. Established in 1978 by gifts of members of classes 1970 through 1977. Income to be used annually for scholarship award to a deserving student with preference for students in pre-med programs.

THE PENFIELD SCHOLARSHIP. $1,000. Established by Allen Penfield, Esq., of Burlington, for men.

THE PHILADELPHIA ALUMNAE CLUB SCHOLARSHIP FUND. $5,647. Established in 1975 by the Philadelphia Alumnae Club — Suburban West. Income to be used for scholarships with first preference given to Middlebury women residing in Greater Philadelphia.

THE MILDRED H. HUBBARD PHIPPS '20 MEMORIAL SCHOLARSHIP FUND. $128,375. Established in 1974 by the gift of her brother, Oliver J. Hubbard. Income to be used annually for scholarship awards to girls from New Hampshire with first preference for award to a student from Walpole, New Hampshire.

THE DANA G. PIERCE SCHOLARSHIP FUND. $8,012.50. Established in 1951. "For men students from Rutland High School."

BLANCHE AND STEPHEN PISKOR MEMORIAL SCHOLARSHIP FUND. $3,938. Established in 1973 by Dr. Frank P. Piskor '37 in memory of his parents. Income to be used annually for scholarship awards.

WILLIAM H. PORTER MEMORIAL SCHOLARSHIP. $50,000. Income to be used for a tuition scholarship. Established by Helen Porter Pryibil in 1950.

THE PRESIDENT'S PURSE. $33,993. Established by the late Charles M. Swift, Esq., the income to be disbursed at the discretion of the President.

ANASTASIA FEODOROVA PRESSMAN MEMORIAL SCHOLARSHIP. $1,656.50. For scholarship aid to students in the Russian School.

THE FREDERIKA PROCTOR FUND. $25,000. Established in 1956, the income to be awarded as a named scholarship, to an undergraduate studying French, by the Scholarship Committee.

JAMES RICHARDSON SCHOLARSHIP FUND. $3,000. Established in 1924 by Mrs. James Richardson as a scholarship for the French Summer School.

JUSTIN RICKER FUNDS #1, #2, #3, #4, #5, #6, #7, #8, #9, #10, #11, and #12. Established by Justin M. Ricker '06 subject to reservation of life income, after which the income of these funds is to be used for scholarships for male students from Bridgeport, Connecticut, or Waterbury, Vermont, or both.

THE MARGUERITE ROGERS '18 SCHOLARSHIP FUND. $13,642.91. Established in 1970 by the bequest of Miss Marguerite Rogers. Income to be used for needy students.

THE RICHARD A. ROSBECK MEMORIAL SCHOLARSHIP FUND. $6,316.50. Established in 1968 by gifts of his family and friends in memory of Richard A. Rosbeck '61 who was killed in military service in Vietnam. Income to be used each year for scholarship aid to a worthy, qualified athlete who, in addition to financial need, displays drive and determination for personal as well as team excellence in Middlebury athletics.

The Eleanor S. Ross Scholarship Fund. $23,397. Established by Middlebury Alumnae Association in memory of Dean Eleanor S. Ross Thomas. Awarded annually to a Middlebury senior woman and based equally on the scholarship, need, and all-around merit of the recipient.

The John W. Rowell Fund. $2,000. Established by the late Chief Justice Rowell.

The A. Bayard Russ Memorial Scholarship Fund. $6,234. Established in 1968 by gifts of Louise Tunnicliff '67, his parents and friends in memory of A. Bayard Russ '66 who was killed in military action in Vietnam. Income to be used each year for a scholarship award to a deserving boy showing athletic ability, good campus citizenship and the distinctive qualities of leadership and service exemplified by A. Bayard Russ '66.

Donald W. Salisbury '16 Memorial Fund. $30,059.38. Established in 1973 in memory of Donald W. Salisbury '16 by gift of his wife, Eva Leland Salisbury '17, his son, Richard J. Salisbury '45, and The Jessup Foundation, Inc. Income to be used in support of scholarships.

The Eva Leland Salisbury '17 Memorial Scholarship Fund. $2,608. Established in 1976 in memory of Eva Leland Salisbury '17 by a gift of her son, Richard J. Salisbury '45, through the Jessup Foundation, Inc. Income to be used in support of scholarships.

The Henry W. Schuettauff Scholarship Fund. $37,960.23. Established in 1968 by Henry W. Schuettauff '27.

George Robert White Scott (Class of 1864) Scholarship. $99,491.76. Established 1958 by request of Dr. George Dow Scott, Class of 1895, for students of high character, irrespective of creed, color, race, or scholarship standing, preference to be given first to a student or students belonging to Alpha Mu, Chi Psi, and then to a student or students of North American Indian, Chinese or Japanese descent.

The Lynde Selden Scholarship Fund. $52,885. Established in 1967 by the bequest of Mrs. Lynde Selden to honor her husband, Lynde Selden LL.D. (Hon.) 1961.

The Marion Shows Fund. $698.12. Established in 1972 by various donors. Income to be used annually to assist minority students.

The Cecil C. Simmons '24 Fund. $1,000. Established in 1975 by a gift of The Serial Federal Savings and Loan Association to honor Cecil C. Simmons '24 upon the occasion of his retirement as chairman of the board.

The Skinner-Allen Scholarship Fund. Established in 1976 by a gift of $1,500 in memory of Mrs. Lee B. Skinner and Harriet (Grant) and Edward Evarts Allen by Carolyn Lee Allen '30. Annual income and future gifts to be added to the principal until the fund reaches $10,000.

The Bezeliel Smith Fund. $1,000. Established in 1893, for men.

Lucy S. Smith '18 Scholarship. $59,800. Established in 1961 for needy and deserving students.

The Jonathan Coleman Southmayd Scholarship Fund. $28,600. Established by the late Hon. Redfield Proctor, in 1922, its income first available for students (men or women) from Proctor.

The Kenneth Sozzi Memorial Scholarship Fund. $137.50. Established in 1972 by the gift of Donald St. J. Sozzi, income to be used for scholarships for the Italian Summer School.

The A. P. Stafford Fund. $1,000. Established "to assist needy students from Wallingford to an education."

The John Wolcott Stewart Fund. $25,000. Established in 1956 by the late Philip B. Stewart in memory of his father, the income to be awarded to one or more male students in need of financial aid who, having completed one or more years' courses, have shown themselves to be of good character and worthy of continued enrollment in college.

The W. J. Stone Fund. $50,000. Established by bequest of Wilfred J. Stone '02, the income to be used to assist Vermont male students at Middlebury College with preference to graduates of Vergennes High School or Vermont Academy.

The Subscription of 1852. $25,000. For men.

Agnes Warner Sunderland Fund. $3,000. Established by Edwin S. S. Sunderland, Esq., class of 1911, the income from which is first available for the assistance of students from Cornwall.

Wylie and Lucy Sypher Scholarship Fund. $19,612. Established by gifts from alumni and friends of the Bread Loaf School of English. Income to be used for scholarships at the Bread Loaf School of English.

Helen A. and W. Grady Thomas '16 Scholarship Fund. $10,200. Established in 1978 by W. Grady Thomas '16. Annual income to be used for scholarship awards for needy and worthy students from middle-income familes.

THE ARTHUR GOULD TASHEIRA FUND. $25,000, the income to be used as far as possible to provide scholarships for worthy and deserving students.

THOMAS G. THOMPSON SCHOLARSHIP FUND. $3,500. In memory of Frank Genung Thompson and Mrs. Alma C. Dow to provide two equal scholarships, one for a young man preparing for the Protestant Christian ministry, and the other a young woman.

THE LUDGER J. TOUSANT FUND. $420.41. Established by the class of 1920 in memory of their classmate — Ludger J. Tousant — killed in World War I.

THE K. P. TSOLAINOS MEMORIAL SCHOLARSHIP FUND. $83,000. Established in 1968 by The K. P. and Phoebe Tsolainos Foundation, Inc. in memory of K. P. Tsolainos, LL.D. (Hon.) 1964. Income to be used for scholarships for students majoring in economics or history with preference to young people of Greek descent.

THE HERBERT K. TWITCHELL FUND. $2,000. Established in 1929 by a bequest received under the will of Mr. Twitchell for students from Vermont, preferably Addison County.

THE JAMES M. TYLER FUND. $1,000. For students from Vermont.

BESSIE CLARINDA VERDER '98 MEMORIAL FUND FOR WOMEN STUDENTS. $1,000. Established by Blanche Avaline Verder in memory of her sister.

THE VOTER MEMORIAL SCHOLARSHIP FUND. $1,325. The income to be used for scholarship purposes, in memory of Professor P. C. Voter, formerly Chairman of the Chemistry Department.

THE WALDO FUND. $10,130. Established in 1864 by bequest of Mrs. Catherine E. Waldo of Boston, for men.

THE PHOEBE KASPER WALLACH '49 MEMORIAL SCHOLARSHIP FUND. $29,834. Established in 1968 by gifts of her parents, Mr. and Mrs. Joseph P. Kasper '20, and friends in memory of Phoebe Kasper Wallach '49. Income to be used each year for scholarship award to an able and deserving girl.

THE WARREN FUND. $3,000. Given in 1835 by bequest of Deacon Issac Warren of Charlestown, Mass., and its income applied in payment of college bills of those who are preparing for the Gospel ministry.

THE WEB FUND. $21,324. Established in 1974 by Fred (Wilfred W.) Barnes '30 in memory of three of his former teachers at the High School of Commerce, Worcester, Massachusetts (1922-26), Mary Ella Whipple, Grace M. Ellis '12, and Ruth L. Boyden. Income to be used to provide scholarship assistance with first preference to needy and worthy students from Worcester County, Massachusetts, and second preference from San Diego County, California.

THE ASA WHEELOCK SCHOLARSHIP FUND. $5,000. Established under the will of Charles B. R. Hazeltine of Arlington, Mass., the income first available to Protestant students from the town of Wardsboro, and then from other small country towns in the State.

RAYMOND L. WHITNEY '35 MEMORIAL SCHOLARSHIP FUND. $6,550. Established in 1971 in memory of Raymond L. Whitney '35 by gifts from his family and friends. Annual income to be used in support of financial aid with preference for a student from Vermont or Maine.

THE ALBERT HENRY WIGGIN MEMORIAL SCHOLARSHIP FUND. $102,605. Established in 1967 by the bequest of Mrs. Lynde Selden in memory of her father, Albert Henry Wiggin, trustee of Middlebury from 1922-1950. Added to by the Albert H. and Jessie D. Wiggin Foundation.

PERCIVAL WILDS '02 MEMORIAL SCHOLARSHIP FUND. $7,332.50. Established in 1972 by Charles M. Wilds. Income to be used annually for a scholarship award with preference to a Vermont student.

FRANK A. WILLIAMS JR. '69 MEMORIAL SCHOLARSHIP. $2,771. Established by the gifts of friends, family and classmates in memory of Frank A. Williams, Jr. to provide scholarship assistance for Middlebury students seeking private instrumental or voice instruction in music and needing help to finance the cost of instruction.

THE EMMA WILLARD SCHOLARSHIP. $2,000. Established in 1895 by the Emma Willard Association, for the benefit of deserving senior women.

THE MARK DOTY WILSON '72 SCHOLARSHIP FUND. $6,796.88. Established in 1976 at the request of Mark Doty Wilson '72 prior to his death. The income providing partial financial support for one or two juniors or seniors majoring in English to study at the Bread Loaf School of English, the Bread Loaf Writers' Conference or Bread Loaf at Oxford, England. Qualification for financial aid is a prerequisite for such an award.

THE WINDHAM COUNTY CONGREGATIONAL SCHOLARSHIP FUND. $2,000. Established in 1951. "Income first available for students proposed by the Conference."

THE HARRIET B. WINSOR SCHOLARSHIP FUND. $10,000. Established under the will of Harriet

B. Winsor, of Springfield, Mass., in 1950. One-half income to provide a scholarship for men and one-half income to provide a scholarship for women.

The Charles Baker Wright Scholarships. $64,362.50. Established in 1949. Income from fund to provide two full tuition scholarships to be awarded annually to a man and a woman in the senior class.

The Marion L. Young Scholarship Fund. $10,054. Established by the Middlebury Alumnae Association in 1940. Income awarded annually to the freshman woman outstanding in scholarship, personality and athletics.

EXPENDABLE SCHOLARSHIPS

The Louis Calder Foundation Scholarship. $20,000 annually. From the Louis Calder Foundation for scholarship support of Metropolitan New York students.

Davison-Foreman Foundation Grants. Available to girls working toward Middlebury degrees.

Edwin Gould Foundation Scholarships. Established by the Edwin Gould Foundation for Children. Four-year grants awarded annually to deserving students.

The Marie L. Rose Huguenot Scholarship. $1,000 a year available to students of Huguenot ancestry nominated by the College for award by the Huguenot Society of America. Special application forms are available from the College's Office of Financial Aid.

Christian A. Johnson Scholarship Program. $50,000 annually for five years. From the Christian A. Johnson Endeavor Foundation for students from middle income families requiring assistance.

Ada Howe Kent Foundation Scholarship. $20,000 annually for five years. From the Ada Howe Kent Foundation for scholarship awards not to exceed $2,000, to students able to provide in part from their own resources and from families who can make some contribution but are unable to pay all college costs.

The Agnes M. Lindsay Awards. $8,000 annually. From the Agnes M. Lindsay Trust for scholarships for men and for women.

Theodore Luce Fund Scholarship. $6,000 annually. From the Theodore Luce Fund for awards to needy students from Metropolitan New York.

Charles Irwin Travelli Scholarships. Established by the Charles Irwin Travelli Fund. Four-year grants awarded annually to deserving students.

The Sylvia Westin Wurts Memorial Scholarship. Awarded each year to a woman student from the Hartford, Connecticut, area.

LOAN FUNDS

Alpha Sigma Phi Memorial Fund. $13,068. Established in 1966 as a revolving loan fund for worthy and needy male students at the College, in memory of those brothers in Alpha Sigma Phi of Middlebury College who lost their lives in World Wars I and II.

Reid L. Carr and Eleanora F. Carr Revolving Loan Fund. $12,440. "To help deserving students."

Joel B. Harris Student Loan Fund. A revolving fund of $7,609. for loans to Middlebury students.

Hazeltine Student Loan Fund. $2,500.00 received in 1923 under the will of Chas. B. R. Hazeltine and his sister, Harriet S. Hazeltine, of Arlington, Mass., "the income only to be used as a loan fund in assisting students in Middlebury College."

Elam R. Jewett Student Loan Fund. $3,000, received in 1923 from a friend. "The principal to be safely invested, the income and accretions to be loaned, under certain conditions, to men students of the College."

Martha Jewett Nash Student Loan Fund. $3,000, received in 1923 from a friend. "The principal to be safely invested, the income and accretions to be loaned, under certain conditions, to women students of the College."

William H. Porter Student Loan Fund. $10,140, an unconditional legacy received in 1927 under the will of William H. Porter of New York. By action of the trustees it was made the William H. Porter Student Loan Fund, the principal to be safely invested and kept intact, the interest therefrom and accretions thereto to be used for making loans to worthy men students from Vermont — first consideration being given those from Addison County.

Justin M. Ricker Fund. $3,816. Established in 1956 by Justin M. Ricker, '06.

EMMA HARDY SLADE STUDENT LOAN FUND. $4,671.18. A revolving loan fund for both men and women, but with preference given to women. Established in 1961 by the National Society of New England Women, in honor of its founder.

PRIZES AND AWARDS

There are many generous prizes and awards for which students may compete in various ways.

CHARLES B. ALLEN MEMORIAL PRIZE. In memory of "Corky" Allen, '62. Income from $6,260. Awarded to the senior who has excelled in the fields of biology, chemistry and/or physics, and who by his participation in athletics and other student activities has contributed to the spirit of Middlebury.

THE ALUMNI ASSOCIATION COMMUNITY SERVICE AWARD. Awarded annually to the graduating senior who has best demonstrated a commitment to community service through involvement in campus or community non-academic life at Middlebury.

BISHOP ATWOOD HISTORICAL PRIZE. Income from $323.84. Awarded to the man who does the most distinguished work in history. Established in 1938 by Julius W. Atwood, 1878, Bishop of Arizona, 1910-1925.

BYRON E. BERMAS, JR., PRIZE. Income from $500. Awarded to a man or woman in the senior class who has done outstanding work in Geography.

DEACON BOARDMAN PEACE PRIZE. Income from $3,237. Awarded to a member of the junior class submitting the most creditable literary essay of at least 2,000 words in favor of peace and in opposition to war as a method for settling international differences. In memory of Samuel Ward Boardman, Professor of Rhetoric and English Literature 1859-1861.

BARBARA BUCHANAN MEMORIAL AWARD, in memory of Barbara J. Buchanan's academic excellence and ideal of service.

REID L. CARR PRIZE. Income from $1,500. Awarded to the male member of the senior class who has shown the greatest proficiency in English Literature.

GEORGE H. CATLIN PRIZE. The annual income, not exceeding $1,000, on a fund established by the will of George H. Catlin in 1930, awarded annually to the student who completes the full A. B. "classical" course, showing the highest grade for scholarship and deportment. Established in 1918 by George H. Catlin, Hon. LL.D. 1920, Pennsylvania banker.

GEORGE H. CATLIN CLASSICAL PRIZE FUND. Income from $1,000. Awarded to a man in the senior class whose college work in Greek and Latin is adjudged worthiest of distinction.

GEORGE H. CATLIN FUND. Income from $7,615.74. Established by the will of George H. Catlin, in 1951. Awarded each year to the student who has completed with the highest average the full four-year "classical" course, including preferably some study of Latin and Greek.

EATON PRIZE. Income from $1,000. Awarded to the student who in the opinion of the President and the Faculty has maintained the highest standing in the Classics.

GEORGE ELLIS FELLOWSHIPS. Two fellowships, each with an annual value of over $2,000, were established at Columbia University in 1931, under a provision in the will of George W. Ellis, to be open primarily to residents of Vermont or to the graduates of Middlebury, Norwich, and the University of Vermont. The fellowships are awarded to qualified men or women for pursuing advanced or graduate study in any of the faculties or schools at Columbia. Information on this fellowship may be secured from the President's Office.

HARRY M. FIFE MEMORIAL. Income from a fund of $1,510, established in memory of Harry M. Fife, Professor of Economics, 1925-50.

MAUDE VIOLET GRAYBAR AMERICAN HISTORY PRIZE. Established in 1966 by Lloyd J. Graybar '60 in memory of his mother, Maude Violet Graybar. Income on $500 awarded annually to the student who writes the best honors thesis in American History since 1860 or, at the discretion of the departmental chairman, to the Senior student who has displayed the greatest proficiency in American History since 1860 during the four undergraduate years.

HAZELTINE-KLEVENOW CUP. Awarded to a man in any of the four classes who has best combined ability in athletics and excellence in scholarship. The name of the recipient is placed on the cup as a permanent record, and a replica of the cup is presented to the winner. Established by Marshall M. Klevenow, Middlebury coach, 1925-1928, and Burt A. Hazeltine, Dean of Men, 1926-1938.

KELLOGG LATIN ENGLISH PRIZE. $25 and $15. Awarded for the two best examination papers on Horace. Established by Brainerd Kellogg. Professor of Rhetoric and English Literature, 1861-1868, and trustee, 1885-1920.

Rose Martin Spanish Prize of $25. Awarded to that woman graduating with a Spanish Major, named by the Department of Spanish for her outstanding performance in the major area. Established in May 1961 by the Manhattan Middlebury Alumnae Association.

Mortar Board Cup. Awarded to a sophomore woman who in the opinion of the Chapter has shown the greatest interest in College by participation in extracurricular activities and by attainment of high scholarship. Established by Mortar Board.

Mildred Virginia Osher History Prize. Established in 1963 by Lloyd J. Graybar '60 in memory of his aunt, Mildred Virginia Osher. Income of $500. Awarded annually to the student who writes the best honors thesis in history or, at the discretion of the department chairman, to the senior student who has displayed the greatest proficiency in the study of history during the four undergraduate years.

John P. Stabile Memorial Cup. Awarded to the athlete who best exemplifies the Middlebury spirit. Established in memory of Lt. John P. Stabile, '40, killed in action, Guadalcanal. Established by Lt. John F. Hogan, '41.

The Marci J. Stewart '72 Memorial Awards. Awarded each year by the History Department to the student in History or American Studies who has shown outstanding personal and academic qualities.

Stolley-Ryan American Literature Prize. Established in 1978 as an annual award to the graduating senior majoring in American Literature whose work in the Department best reveals the greatest understanding and appreciation for the issues central to the American literary tradition.

Mary Dunning Thwing Prize. Income of $1,500. Awarded to a woman student who in her junior and senior year has done the best work in English composition, prose and poetry. Established by Charles F. Thwing, President of Western Reserve, in memory of his wife, Mary Dunning Thwing.

Alice J. Turner Memorial Trophy. Awarded each year to a member of the varsity basketball team.

Paul W. Ward '25 Memorial Prize. A $100. prize awarded twice annually, each term, to a freshman for proficiency in writing.

Franklin G. Williams '13 and Sara H. Williams '12 Memorial Award. Income from $1,000 to be awarded to a young man or woman in the sophomore class, on the basis of deep human qualities of natural kindness, perceptivity of the needs and feelings of others, and an abiding sense of personal responsibility.

Woolsey Prizes. Income from fund of $1,630.21. Awarded to the two undergraduates writing the best examinations in Bible. Established in 1933 by Theodore S. Woolsey, trustee, 1922-23.

ENDOWED LECTURESHIPS

Julian W. Abernethy Lecture. Established in 1928 under the will of Julian W. Abernethy, Class of 1876. A writer of distinction is annually invited to address the College upon some aspect of American literature in commemoration of the birthday of Dr. Abernethy, founder of the Abernethy Library.

Willard Duncan Carpenter '14 Memorial Lecture Fund, $10,556. Established by Mrs. Ethel G. Storm, Class of 1916, in memory of her first husband. Income to be used for a lecture in the Fine Arts.

Charles S. Grant Memorial Lecture. Established by friends in memory of Professor Grant to provide an annual lecture in History.

Samuel S. Stratton Lecture. Established by 1962-63 gifts to the Parents' Fund to honor Dr. Stratton at the time of his retirement as the eleventh President of Middlebury, to provide an expanded program of visiting lecturers on the Middlebury campus.

Class of 1914 Lecture. Established by an anonymous member of the Class of 1914, to provide an annual lecture on Science and the Humanities.

The John Hamilton Fulton Memorial Lectures. Given anonymously. To establish lectures, performances and extended visits to the Middlebury campus by distinguished scholars, artists and performers.

Academic Standards and Regulations

The College furnishes each entering student with a copy of the *Middlebury College Handbook* containing detailed information regarding policies and regulations for enrollment, fee refunds, attendance, scholarship, examinations, athletics, and student activities. All students are responsible for a knowledge of and compliance with College regulations.

The College reserves the right to exclude at any time students whose conduct or academic standing it regards as undesirable, without assigning any further reason therefor. In such cases, the fees which are due or which may have been paid in advance will not be refunded or remitted, in whole or in part, and neither the College nor any of its officers shall be under any liability whatsoever for such exclusion.

Grades. Instructors report final course grades to the Dean of Students and do not give them directly to students. Students are responsible for keeping parents correctly and currently informed of their standing and progress. Final grades, notices of academic probation, and second course warnings are sent to parents.

The Dean of Students will consider any special curricular problems of veterans and grant waivers to the usual requirements when circumstances involve such factors as health, extended interruption of education and family responsibilities.

Transfer of Credit. Students may transfer course credits from other institutions by preparing in advance a "Transfer of Credit" form (requiring approval by the department chairman, the student's adviser, and the Dean of Students). Acceptance of credit toward the Middlebury degree is contingent upon receipt of this form by the Dean of Students and Transcripts from approved educational institutions. To receive credit the transfer course must be above the introductory level at the institution attended, and must be passed with a grade of C− or better. These transfer credits, as well as Advanced Placement credits may be used to make up failures, excess D credits, and other deficiencies in the student's record.

In evaluating entering transcripts of transfer students, the College grants year-for-year equivalence for students who followed an A.B. program at another accredited four-year college regardless of the academic calendar followed. This policy applies whenever possible for lesser transfer units. When term equivalences cannot be established, the Dean of Students will decide on the number of Fall-Winter-Spring terms needed to complete the degree. In all cases, course evaluation will be relevant to fulfillment of Middlebury Departmental and College requirements. Failing grades and D's at other colleges are not transferable. Students transferring to Middlebury from all other programs will have their transcripts evaluated by the course and content to determine standing.

Failure, Probation, Warning and Readmission. A student who receives two failing grades, three D grades or one failing grade and two D's during a fall or spring term will be dropped from College. First-term freshmen who have two F's and two C's or better or 3 D's and one C or better at the end of the fall term will be continued in college on academic probation. Seventh-term seniors will be reviewed by the Administration Committee prior to final action.

A student who receives two D grades or one failing grade and a D grade in a single term will be placed on probation until the end of the following Fall or Spring term. A student on probation who receives one failing grade or two D grades in the subsequent Fall or Spring term will be required to withdraw.

A student who receives a failing grade in the Winter term while on probation will be required to withdraw; if not on probation the student will be placed on probation for the Spring term. A student on probation from the previous fall who receives an honors grade for the Winter Session will be removed from probation. A student may not be placed on probation more than twice in his College career and will be required to withdraw.

For students enrolled in three courses in a term, one failing grade and one D grade, or two D grades constitute academic failure. Should they receive one failing grade or one D grade they will be placed on probation.

At any time when a student is failing a course, consistently receiving grades below C−, or in any way neglecting the obligations of a course, he may be placed on course warning.

A student who is failing in his studies generally may be dropped from college by the Administration Committee if in its judgment his failure is due to lack of application or to negligent attitude.

A student dropped for academic failure will not be readmitted except by special action of the Administration Committee. Readmission is a special privilege, not a right. The Committee will take favorable action only when it is satisfied that the factors which led to failure have been rectified and that the student has both ample motivation and capacity to earn his degree. Mere lapse of time is not sufficient basis for readmission. The burden of proof of motivation and capacity rests with the student. The student is encouraged to enroll at another accredited institution and to achieve a good record there. In some cases, military service or employment related to his interests may be considered as evidence.

Application for readmission is made to the Administration Committee through the Dean of Students. Any student readmitted will be on probation for the first term following his return and, if dropped a second time, will not be readmitted.

Auditing. With advance permission of the instructor a regularly enrolled student may attend other classes as an auditor. The instructor establishes the conditions under which the student may audit, but in no case can the student receive credit for auditing.

Non-students may audit courses only with the permission of the instructor and the Dean of the College.

Special Students. Students who require only one or two courses to complete their degree requirements may apply to the Administration Committee for Special Student status. Other students may seek reduced course loads and Special Student status for exceptional personal reasons.

Individuals not enrolled as A.B. candidates are occasionally admitted as Special Students for compelling personal and educational reasons. Such individuals must apply to the Administration Committee for admission as Special Students.

Special Students pay by the course.

Adjunct Students. A small number of students, primarily foreign nationals, may be admitted as non-degree candidates. They would take as many or few courses as desired, would decide whether or not they would receive grades, and would pay full comprehensive fee. The Administration Committee would admit them and oversee their programs.

Independent Scholar Program. The purpose of the program is for the students of demonstrated motivation and ability to define their individual educational goals and assume personal responsibility for attaining them independent of the College's normal curricular requirements. The program is administered by the Independent Scholar Committee.

RESIDENCE HALLS

Middlebury is a residential college. Students must receive special permission of the Dean of Students to reside off-campus.

Reservations are made by upperclassmen during the spring for the following year, and all rooms are assigned subject to residence halls regulations. Occupants are liable for any damage to the residence halls and their furnishings. A student may be required to withdraw from college or be subject to lesser disciplinary penalties for failure to respect residence halls regulations. The College does not accept responsibility for loss of money or other personal property or damage thereto while located in the halls. The Dean of Students reserves the right to remove from a student's room any item which constitutes a safety hazard or seriously interferes with the maintenance of the building.

Rooms are ready for occupancy in September on the day preceding the first college exercises and, except for seniors, are vacated on the day following the student's last final examination. Residences are closed during the Christmas vacation and students may not have access to rooms during that period.

Residence Halls are furnished with single or double-deck beds, mattresses, desks, dresser and chairs. Bedding, pillows and other accessories are furnished by the occupants. The compre-

hensive fee includes heat and electricity, and custodial service. Students provide their own laundry service.

Student Counselors in each section of the freshman halls work closely with the Deans and the freshman advisers.

All students must eat either in the College Dining Halls or fraternities unless excused by the Dean of Students.

FRESHMAN WEEK

Directly preceding the opening of the fall term, there is an orientation period for freshmen. The program includes Freshman Convocation, an informal assembly, registration, receptions and social gatherings, lectures by members of the college personnel, and placement tests.

CHAPEL SERVICES

Members of the College community gather in Mead Chapel for common worship. The Sunday Service is Christian in emphasis and ecumenical in design. The sermons are delivered by the College Chaplain, occasionally by other members of the Middlebury faculty, and by visiting clergymen. The Middlebury College Choir enriches the services by the presentation during the year of a broad repertory of sacred music.

HEALTH MEASURES

The College Comprehensive Fee provides for the use of the College Infirmary including the services of the Medical Director for the College (a full-time physician), assisted by registered nurses who provide round-the-clock attention. The Infirmary is used for out-patient treatment as well as to provide bed care for minor illness. Porter Medical Center, in Middlebury, provides ready access to a well equipped facility and professional staff. Extensive medical facilities are available at the Medical Center Hospital of Vermont in Burlington.

The Medical Director of the College has general oversight of the health needs of the students. Before matriculation every freshman must present a satisfactory health certificate signed by a physician. Physical measurements and health records are filed and corrective exercise recommended when needed. All students who are physically able are required to complete the Physical Education Program (see Program description under the Department of Physical Education and Athletics). The College reserves the right to ask the withdrawal of any student for medical or psychiatric reasons. A student may be requested to have a thorough physical examination once a year or whenever considered necessary by the Medical Director. The Medical Director authorizes all absences due to illness.

The College Health Service offers the services of two psychological counselors, one part-time and one full-time. The College also employs a psychiatrist who is on the campus part-time and is on 24 hour call.

EXTRACURRICULAR PROGRAM

The relatively small size of the College permits participation in a variety of extracurricular activities by all undergraduates. Theatrical productions, sports events, lectures and weekend mountain trips are scheduled throughout the year.

Concert Series. Outstanding artists and films are brought to the campus under the supervision of a faculty-student committee appointed for that purpose.

Many other special lectures are sponsored by the College, under special funds, or through various departments and organizations.

Radio Station. Students operate WRMC-F.M. radio station licensed by the F. C. C. as a 10 watt stereo educational facility. Programming features music, sports, interviews and news.

ATHLETICS

Middlebury College is a member of the Eastern College Athletic Conference (ECAC), the National Collegiate Athletic Association (NCAA), the Association for Intercollegiate Athletics for

Women (AIAW), the Eastern Association for Intercollegiate Athletics for Women (EAIAW), and the Northeast Intercollegiate Athletic Conference (NIAC). In 1970-1971 Middlebury joined with nine other institutions in forming the New England Small College Athletic Conference (NESCAC). This conference consists of: Amherst, Bates, Bowdoin, Colby, Hamilton, Middlebury, Trinity, Tufts, Wesleyan and Williams. The College maintains a healthy and active intercollegiate athletic program consisting of eleven sports: football, cross-country, soccer, basketball, skiing, hockey, baseball, track, lacrosse, golf, and tennis. There is also a "B" squad/freshman athletic program in most intercollegiate sports. Middlebury, Norwich University, University of Vermont and St. Michael's College compete annually for the Vermont State Championship in most sports.

The women's intercollegiate program includes active competition in track, tennis, swimming, field hockey, squash, basketball, cross-country running, nordic and alpine skiing, soccer, and lacrosse.

Intramural games are scheduled in basketball, track, golf, rifle, soccer, lacrosse, bowling, tennis, relays, badminton, touch football, volleyball, hockey, softball, and swimming. Skiing and hockey are special features of the winter calendar. Most of the Intramural Program is co-ed.

A club sports program includes rugby, squash, swimming and volleyball for men and ice hockey and synchronized swimming for women.

Students take part in the Annual Winter Carnival which, in the years since its inception, has assumed an important role in the social and sports life of the College.

The College does not assume legal responsibility for the expense in caring for injuries sustained by athletes while training for or participating in athletic competition.

ORGANIZATIONS

Honorary organizations on the campus are: Phi Beta Kappa and Mortar Board.

There are also athletic, musical, dramatic, language, literary, religious and departmental student clubs.

Six fraternities are represented: Alpha Sigma Psi, Chi Psi, Delta Upsilon, Kappa Delta Rho, Sigma Epsilon, and Zeta Psi.

Service organizations are: Sophomore Guides and Junior Counselors.

MOTOR VEHICLES.

All students, except those on disciplinary probation, are permitted to have or to operate a motor vehicle. Students on Financial Aid must file a form with the Director of Financial Aid justifying the expense.

PUBLICATIONS

Undergraduates of Middlebury College publish a newspaper, *The Middlebury Campus*. Students assume complete responsibility for the editorial content of the newspaper. Other publications are a yearbook, *The Kaleidoscope,* a literary and graphic arts publication, *Frontiers,* and a women's literary magazine, *Artemis*.

CAREER PLACEMENT

The Placement Office provides all students and alumni of Middlebury College with a central source of information and with personal counseling on career planning, graduate work, and summer employment. Throughout the year the office hosts recruiters from private industry, government, and graduate schools to interview candidates. The library in Adirondack House contains a wide variety of material on careers, graduate study, and job opportunities. It is important for all students to register early with Career Counseling and Placement (Junior year or before). This permits a permanent record to be established and updated regularly to better assist candidates in the search for these opportunities now and in the future. Those wishing this information sent to outside agencies may subscribe for our Dossier Service for a modest fee of $1.50 per dossier.

GRADUATE WORK

Academic Year. Middlebury College offers graduate courses leading to the Master of Science degree in the Department of Biology and Chemistry during the regular academic year. Inquiries about these programs should be addressed to the chairman of the department concerned. Graduate students may be enrolled only upon recommendation of the department concerned and approval by the Executive Committee of the Science Division in consultation with the Dean of the Faculty. The courses which are regularly offered for graduate credit are:

Biology: All Biology courses numbered 300 or above and Mathematics 300 or above.

Chemistry: All Chemistry courses numbered 400 or above. In order to serve the needs of graduate students in these departments, cognate courses in other department may, when appropriate, be raised to graduate level by inclusion of supplemental material.

Candidacy for the Master of Science degree is subject to the following general regulations:

1. The candidate must hold a baccalaureate degree from Middlebury College or from a comparable institution and must have completed an undergraduate course of study sufficient for effective graduate work.
2. The candidate must satisfy Middlebury College of his fitness to undertake graduate study.
3. The candidate must be a student in residence at Middlebury College for at least one academic year.
4. In order to be granted the degree, the candidate must successfully complete graduate work equivalent to nine courses.
5. Graduate work done at other institutions may be transferred for credit toward a Middlebury degree subject to the condition that at least six of the required course equivalents for graduation must be completed at Middlebury College.
6. Graduate work in cognate fields may, upon approval of the major department, be counted toward the degree subject to the limitation that at least six of the nine required course equivalents must be in the department in which the degree is granted.
7. All work to be credited toward the degree must be completed with a grade of B− or above.
8. Participation in laboratory teaching and preparation is a degree requirement.
9. All work to be credited toward the degree must have been completed during the ten year period immediately preceding the granting of the degree.

Candidacy for the Master of Science degree is subject also to such further regulations as Middlebury College may establish.

Tuition for graduate study is charged at the single course rate of $625 in 1979-80 and one can enroll in an optional sickness insurance program for an additional $37.

Bread Loaf. The Middlebury College Bread Loaf School of English is in session during the summer and offers only graduate courses leading to the M.A. and M. Litt. degrees. However, exceptionally able undergraduates are accepted. The School encourages teachers who have their Master's degree, or others who have at least a Baccalaureate degree to enroll for a summer as non-degree students in a Program of Graduate Continuing Education. Admission is on the basis of college transcripts and two letters of recommendation. Since the program of study is designed to meet individual needs, there is no set of requisites for admission. Although an excellent undergraduate record in English and strong recommendations are the surest admissions criteria, experience has shown that students who have mediocre college records or who have majored in other disciplines may, with teaching experience, have achieved a perspective that will assure them of distinguished records at Bread Loaf. In short, Bread Loaf prefers to allow applicants to establish their capabilities during the first summer. Students are accepted for one summer only and are readmitted only after demonstrating that degree requirements can be successfully met.

The Bread Loaf School of English offers graduate courses in English literature and drama during a six-week summer session at Lincoln College, Oxford University. The same criteria for admission pertain as at the School of English. Courses at Lincoln College may be transferred toward the M.A. or M. Litt. degrees at the School of English.

The bulletin, issued each winter, contains further information about application and registration. Inquiries should be addressed to the Administrative Assistant of the Bread Loaf School of English, Old Chapel, Middlebury College, Middlebury, VT 05753.

The Bread Loaf Writers' Conference is also held at Bread Loaf during the ten days following the School of English in the middle of August. This Conference offers lectures, discussions, and private consultations in fiction, non-fiction, poetry and children's literature, but does not lead to a degree. Full information is provided in the special Bulletin, published each year in April. Inquiries should be addressed to the Secretary of the Writers' Conference.

The Language Schools. Graduate work leading to the Master of Arts Degree and the Doctor of Modern Languages Degree is offered in the Middlebury College Language Schools of French, German, Italian, Russian, and Spanish during the summer. In addition, courses for undergraduate and graduate credit provide intensive instruction in Chinese, French, German, Italian, Japanese, Russian and Spanish. The Language Schools offer a rich experience in the spoken and written language as well as in literature, civilization, linguistics, social sciences, art history, and foreign language pedagogy. A normal course load is three courses per summer to be selected in consultation with the Director or Dean of the apropriate Language School. Students are placed in courses most appropriate to their linguistic proficiency at the time of registration, and some prospective graduate students may be required to take one or more courses at the advanced undergraduate level before beginning a full load of graduate work. Full information about the requirements for degrees and curriculum is given in the Middlebury College Language Schools bulletin. Upon request to the Language School, complete information will be mailed. All specific inquiries for admission to the Language Schools should be directed to the Dean of the specific school, Sunderland Language Center, Middlebury College, Middlebury, Vermont 05753.

The Schools Abroad. The Middlebury Schools in France, Germany, Italy, Spain and the Soviet Union are open to qualified graduate and undergraduate students. Each school is under the supervision of a resident Director appointed by the College to oversee all aspects of the program and to assist students in settling in the foreign city. Courses are taught by professors and distinguished critics and scholars, either at the local universities or in special seminars organized for Middlebury College. It is expected that all students maintain the spirit of the summer language pledge while they are abroad. After spending the required preliminary summer on the Vermont campus, graduate students may complete their course of study for the Master of Arts degree in one of the Schools abroad. All are expected to carry a full load of courses in the areas of language, literature, and culture and civilization. Doctor of Modern Languages candidates may elect to fulfill the required period of residency abroad by taking courses for credit in one of the Schools or by auditing classes in preparation for the general examinations.

(The program in Moscow is limited to one semester in length, but can be participated in either in fall or spring. Completion of the Master of Arts degree in Russian will normally require two summers of work following the program in Moscow. DML candidates should consult with the Director of the Russian School Concerning research possibilities in the Soviet Union.)

The Degree of Doctor of Modern Languages. Besides the Master of Arts degree, the Foreign Language Schools also offer the advanced degree of Doctor of Modern Languages (D.M.L.). A detailed statement of the requirements for this degree will be sent on request by the Director of the Language Schools.

Middlebury College is accredited by the New England Association of Colleges and Secondary Schools, and the Vermont State Department of Education.

The New England Association of Colleges and Secondary Schools accredits schools and colleges in the six New England states. Membership in one of the six regional accrediting associations in the United States indicates that the school or college has been carefully evaluated and found to meet standards agreed upon by qualified educators. Colleges support the efforts of public school and community officials to have their secondary school meet the standards of membership.

Development Program

The long range Development Program, inaugurated in 1954, seeks the additional funds necessary to provide increased teaching resources and academic facilities required to sustain Middlebury's educational objectives.

Currently Middlebury's development effort focuses on the need for a sizeable addition to Starr Library. Steady growth in the book collection, expanded microform requirements and increased enrollment require a $2,200,000 addition now under construction. Other building projects are an Alumni House Conference Center costing $600,000 and the relocation of a larger Science Library in the Science Center requiring $300,000.

Major attention is being given to the need for increased endowment. Gifts and bequests particularly helpful would be directed in support of scholarships, Middlebury's Language and Bread Loaf Schools, library and fine arts acquisitions and an improved faculty research leave program. Gifts of $25,000 and above are needed for endowed undergraduate scholarships while gifts of $10,000 and upward can establish graduate scholarships at the Language Schools and the Bread Loaf School of English.

The endowment of a professorship is one of the finest and most rewarding contributions that can be made to the College. Necessary funds for such an endowment would range from $500,000 to $750,000 for the regular undergraduate college. Contributions in the $100,000 to $150,000 range could establish professorships at the Summer Language Schools. The endowed chairs currently established at Middlebury and the dates of their founding are as follows:

The Burr Professorship of Chemistry and Natural History (1829)
The John C. Baldwin Professorship of Mathematics and Natural Philosophy (1866)
The Levi P. Morton Professorship of Latin and French (1886-87)
The Beman Professorship of Mathematics (1893)
The James B. Jermain Professorship of Political Economy (1901)
The A. Barton Hepburn Women's Professorship (1908)
The George Nye and Anne Walker Boardman Professorship of Mental and Moral Science (1908)
The Paige-Wright Professorship of Economics (1913)
The Fletcher D. Proctor Professorship of American History (1918)
The Henry Norman Hudson Professorship of English (1920)
The A. Barton Hepburn Professorship of Economics (1922)
The John C. McCullough Professorship of Chemistry (1924)
The Julian W. Abernethy Professorship of American Literature (1933)
The Albert D. Mead Professorship of Biology (1949)
The George Adams Ellis Professorship of Liberal Arts (1956)
The Jean Thomson Fulton Professorships of Modern Languages and Literature (1963)
The Irene Heinz and John La Porte Given Professorship in Pre-medical Sciences (1966)
The Charles A. Dana Professorships (1966)
The Philip Battell Stewart and Sarah Frances Cowles Stewart Professorship (1970)
The Christian A. Johnson Professorship in Studio and Performing Arts (1974)
The Christian A. Johnson Professorship in Studio Art (1974)
The William R. Kenan, Jr. Professorship (1975)
The Christian A. Johnson Distinguished Professorship in Economics (1977)
The Frank and Eleanor Griffiths Professorships of Literature at the Bread Loaf School of English (1977)

The Administration will be happy to discuss any of its future plans with friends of the College. Forms for gifts and bequests for endowment, general, and specific purposes are given on the next page.

FORMS FOR GIFTS AND BEQUESTS

The corporate title of Middlebury College is "The President and Fellows of Middlebury College."

The following forms are suggested:

GENERAL: *"I give (or bequeath) to The President and Fellows of Middlebury College, a corporation of the State of Vermont, located at Middlebury, Vermont, the sum of . . . . . for the uses and purposes of said Corporation."*

ENDOWMENT: *"I give (or bequeath) to The President and Fellows of Middlebury College, a corporation of the State of Vermont, located at Middlebury, Vermont, the sum of . . . . . to be added to the General Endowment of the said Corporation."*

FOR A SPECIFIC PURPOSE: *"I give (or bequeath) to The President and Fellows of Middlebury College, a corporation of the State of Vermont, located at Middlebury, Vermont, the sum of . . . . . to be known as the . . . . . Fund, the principal to be invested and reinvested in its discretion, and the income and capital appreciation therefrom to be used (or if the testator prefers — "earned income only to be used") for the purposes of . . . . . If at any time, in the judgment of the Trustees of the said Corporation, the need of income for such purpose no longer exists, the Trustees of the said Corporation shall be, and hereby are, authorized to use the income from the Fund for such purpose as shall in their judgment promote the interests of the College."*

President and Fellows

PRESIDENT AND FELLOWS THE CORPORATION

OLIN C. ROBISON, D.PHIL., LL.D.

Middlebury, VT

President of the College

CHARTER TRUSTEES

(Calendar year indicates first date of election)

ARNOLD R. LAFORCE, '35, B.S., M.B.A. (1961) Chairman of the Board and President of the Corporation Brady Security & Realty Corporation	Gladstone, NJ
HILTON A. WICK, A.B., LL.B. (1969) Vice Chairman of the Corporation President, Chittenden Corporation	Burlington, VT
ALBERT W. COFFRIN, '41, A.B., LL.B. (1973) Secretary of the Corporation United States District Judge	Burlington, VT
FREDERICK W. LAPHAM, JR., '43, A.B. (1967) President, Lapham Management Inc.	Burlington, VT
FELIX G. ROHATYN, '49, A.B. (1969) Lazard Freres & Company	New York, NY
MARY WILLIAMS BRACKETT, '36, A.B., M.A., PH.D. (1969) Academic Dean, Norwalk Community College	Wilton, CT
ROBERT B. RIVEL, '42, A.B., M.A. (1970) President, Union Dime Savings Bank	New York, NY
GLADSTONE L. CHANDLER, JR., '55, A.B., B.D. (1970) Administrative Officer, The Riverside Church	New York, NY
JOHN M. KIRK, '39, A.B. (1971) President, John M. Kirk Company	Malden, MA
DEBORA NYE EPPLER, '50, A.B., M.A. (1972)	Rancho Santa Fe, CA
WILLARD T. JACKSON, '51, A.B., M.B.A. (1973) Investment Counsellor, Brundage, Story & Rose	Riverside, CT
ELECTRA BOSTWICK MCDOWELL, '55, A.B. (1974)	New York, NY
JULIE JOHNSON KIDD, '67, A.B. (1973)	New York, NY

Term Trustees

	First Elected	*Term Expires*	
Stacy B. Lloyd, III, '60, A.B. Freelance Writer	1974	1982	Washington, DC
Allan R. Dragone, '50, A.B., M.B.A. Executive Vice President Celanese Corporation	1978	1983	Darien, CT
W. Kyle Prescott, '49, A.B. President, Prescott & Company Ltd.	1978	1983	Montreal, Quebec
Khalid Ali al Turki Owner and Managing Director Trading and Development Company	1979	1982	Dharan, Saudi Arabia

Alumni Trustees

William G. Craig, '37, A.B., M.A., ED.D. Chancellor, California Community Colleges	1976	1980	Sacramento, CA
Roger B. May, '53, A.B., M.S. Staff Reporter, *Wall Street Journal*	1977	1981	Maplewood, NJ
Marilyn R. Bruhn, '47, A.B. Assistant to the President New York University	1978	1982	New York, NY
A. Rita Chandellier Glavin, '58, A.B., J.D. Attorney, Glavin and Glavin	1978	1982	Waterford, NY
C. Irving Meeker, '50, A.B., M.D. Clinical Professor of Obstetrics and Gynecology Tufts University College of Medicine Chairman, Department of Obstetrics and Gynecology Maine Medical Center	1979	1983	Falmouth, ME
Jane Hyde Christopher, '51, A.B. Director of Alumnae Relations and Alumnae Fund Pine Manor College	1979	1983	Wellesley, MA
Deborah W. Parton, '76, A.B. Newspaper Reporter	1978	1980	Rawlins, WY
J. Oliver Maggard, '77, A.B.	1979	1981	New York, NY

Trustees Emeriti

(Dates indicate election to Board of Trustees and effective date of emeritus status)

James I. Armstrong, PH.D., LL.D., L.H.D., LITT.D. (1963, 1975)	Greenwich, CT
Egbert C. Hadley, '10, A.B., B.S., D.ENG., LL.D. (1936, 1968)	Middlebury, VT
Stewart Ross, '20, M.D.; SC.D., F.A.C.S. (1936, 1970)	Rutland, VT
Joseph P. Kasper, '20, B.S., LL.D. (1940, 1970)	Sarasota, FL
Carleton H. Simmons, '28, B.S. (1938, 1972)	Sanibel Island, FL

Paris Fletcher, '24, B.S., LL.B., SC.D., LL.D. (1956, 1973)	Worcester, MA
L. Douglas Meredith, A.B., M.A., PH.D., LL.D. (1960, 1975)	Burlington, VT
William S. Youngman, LL.D., A.B., J.D. (1962, 1977)	East Hebron, NH
Alexander Hamilton Fulton (1964, 1978)	New York, NY
Alice Guest Hanson, '30, A.B., M.A. (1948, 1979)	Poughkeepsie, NY
Raymond J. Saulnier, '29, B.S., PH.D., LL.D. (1958, 1979)	New York, NY

Officers of the Corporation

Arnold R. LaForce, '35, B.S., M.B.A. Chairman of the Board	Gladstone, NJ
Hilton A. Wick, A.B., LL.B. Vice Chairman of the Board	Burlington, VT
Albert W. Coffrin, '41, A.B., LL.B. Secretary of the Corporation	Burlington, VT
Roger H. Martin, A.B., B.D., D.PHIL. Assistant Secretary of the Corporation	Middlebury, VT
Carroll Rikert, Jr., A.B., M.B.A., C.P.A. Treasurer	Middlebury, VT

Academic Administration and Staff (1979-1980)

(Calendar year indicates first date of appointment; second date appointment to present position)

PRESIDENT

President	Olin C. Robison, D.Phil. LL.D. (1975)
Executive Assistant to the President, Assistant Secretary of the Corporation	Roger H. Martin, A.B., B.D., D.Phil. (1976, 1978)
Executive Secretary to the President	Marles Railton (Mrs.) (1975)

ACADEMIC PROGRAM

Vice President for Academic Affairs	Nicholas R. Clifford, A.B., M.A., Ph.D. (1966, 1979)
Vice President for Foreign Languages	Roger M. Peel, A.B., Ph.D. (1969, 1978)
Dean of the College	John Spencer, A.B., M.A., Ph.D. (1974, 1977) (on leave winter, spring 1980)
	Steven C. Rockefeller, A.B., B.D., Ph.D. (Acting, winter, spring 1980)
Dean of Arts & Humanities	Edward S. Perry, A.B., M.A., Ph.D. (1978)
Dean of Sciences	Russell J. Leng, A.B., Ph.D. (1966, 1977)
Director of Athletics	G. Thomas Lawson, B.S. (1969, 1977)
Director of Academic Computing	James A. Krupp, B.S., M.A., Ph.D. (1973)
Librarian	Ronald Rucker, A.B., M.A., M.L.S. (1976)
Associate Librarian	Hans Raum, A.B., M.L.S. (1975, 1977)
Reference Librarian/ Science Librarian	Susan W. Tucker, A.B., M.L.S. (1976, 1978)
Assistant Reference Librarian	Amy Dykeman, A.B., M.L.S. (1978)
Special Collections Librarian and Abernethy Curator	Robert Buckeye, A.B., M.A., M.L.S. (1971)
Catalog Librarian	Andrew Perry, A.B., M.L.S. (1974, 1977)
Acquisitions Librarian	William E. Hannaford, Jr., A.B., M.L.S., Ph.D. (1978)
Music Librarian	Katherine C. Skrobela, A.B., M.L.S. (1971)
Secretary of the Faculty	Jean M. MacFadden (Mrs.) A.B. (1977)
Technical Adviser to the Director of the Language Schools	James W. Dodge, A.B., M.A. (1971, 1974)
Technical Director of the Theater	J. Richard Forman, A.B. (1970, 1976)

STUDENT SERVICES

Dean of Students	Erica B. Wonnacott (Mrs.), A.B., M.A. (1968, 1970)
Assistant Dean of Students	Karl L. Lindholm, A.B., M.A. (1976)
Assistant Dean of Students	Cynthia Shaw, A.B., M.A. (1977)
Chaplain	Reverend Charles P. Scott, A.B., B.D. (1951)

Director of Admissions	Fred F. Neuberger, a.b. (1955, 1964)
Special Assistant to Director of Admissions	Eleanor H. Collins (Mrs.) (1964)
Assistant Director of Admissions	Herbert F. Dalton, Jr., a.b., m.a., ed.m. (1979)
Assistant Director of Admissons	Jo Ann Lindholm, (Mrs.), a.b. (1977)
Assistant Director of Admissions	Carolyn L. Perine (Mrs.), a.b. (1973)
Assistant Director of Admissions	Bertram D. Phinney, a.b. (1973, 1974)
Assistant Director of Admissions	Edward C. Young, a.b. (1977)
Admissions Counselor	Lynde S. Karin (Mrs.), a.b. (1979)
Chief of Campus Security	Fred F. Spencer, Jr. (1969)
Associate Dean of Special Admissions, Director of Career Counseling and Placement	Walter A. Moyer, Jr., b.s., ph.d. (1951, 1974)
Assistant Director of Career Counseling and Placement	Darlyn P. Martin (Mrs.) (1963, 1975)
Director of Counseling Services	Gary F. Margolis, a.b., ph.d. (1972)
Director of Undergraduate Records	Lee W. Yorton (Mrs.) (1972, 1975)
Director of Graduate Records	Carolyn H. Carey (Mrs.), a.b. (1977)
Financial Aid Officer	Charles D. Brakeley, a.b. (1964, 1967)
Medical Director	Frank O. Bruch, a.b., m.d., (1977)
Student Activities Director	Jacqueline S. Flickinger (Mrs.) (1967, 1973)

DEVELOPMENT, ALUMNI RELATIONS

Vice President for Development	Walter E. Brooker, a.b. (1956, 1962)
Director of External Affairs	Gail L. Potter (1979)
Associate Director of Development	Roger H. Martin, a.b., b.d., d.phil. (1976)
Director of Deferred Giving	Gordon C. Perine, a.b. (1951, 1978)
Director of Public Affairs	Ronald Nief, a.b. (1976, 1978)
Director of Annual Funds	Jerome H. Ocorr, a.b. (1977, 1978)
Editor, News Services	Max P. Petersen, a.b. (1962)
Assistant Director of Development	Willard D. Dickerson, a.b. (1977, 1978)

BUSINESS MANAGEMENT

Treasurer	Carroll Rikert, Jr., a.b., m.b.a., c.p.a. (1952, 1964)
Associate Treasurer	David W. Ginevan, b.s., m.ed., m.b.a. (1973, 1977)
Business Manager	James D. Ross, a.b., m.b.a. (1956, 1964)
Comptroller and Budget Director	John J. Palmeri, b.b.a., c.p.a. (1977)
Superintendent of Maintenance and Operations	Henry P. Clook (1965, 1976)

Personnel Director	Roger E. Cole, A.B., M.B.A. (1974)
Plant Engineer	Harvey N. Drinkwine (1956, 1967)
Assistant Comptroller	Elaine G. Tornello (Mrs.) A.B. (1973, 1976)
Director of Data Processing	Norman D. Hadley, A.B. (1966, 1968)
Manager of Publication and Communication Services	George H. Huban, B.S. (1940, 1975)
Investment Officer	Richmond G. Littlefield, B.S., M.B.A., C.P.A. (1967, 1976)
Manager of Golf Course, Snow Bowl	Howard R. Kelton (1969, 1979)
Manager of College Store	Carl Peabody, B.S. (1962, 1964)
Director of Food Services	Gary M. Starr, B.S. (1977)
Book Department Manager, College Store	John C. Tulley (1970, 1975)
College Loan Officer	Barbara A. Wells, A.B., M.A. (1946, 1976)
Purchasing Agent, Director of Custodial Services	George W. Whitney, Jr., A.B. (1973, 1975)
Director of Physical Plant	Jon C. Woodbury, B.S. (1978)

ATHLETIC PROGRAM

Director of Athletics	G. Thomas Lawson, B.S. (1969)
Coach: Women's Swimming	Gretchen Adsit, B.S. (1979)
Coach: Skiing, Cross Country; Assistant Coach: Track	Terry L. Aldrich, B.S. (1975)
Assistant Coach: Basketball	Greg Birsky, A.B. (1979)
Assistant Coach: Skiing (seasonal)	Charles N. Brush, A.B. (1972)
Coach: Baseball, Hockey, Fall Golf	Wendell F. Forbes, A.B. (1962)
Assistant Coach: Football, Hockey, Lacrosse	Duane M. Ford, A.B. (1978)
Assistant Coach: Skiing (seasonal)	Thomas B. Fulton, A.B. (1977)
Coach: Women's Tennis; Brown Pool Director	Joan T. Greiner (Mrs.), B.S., M.S. (1960)
Coach: Lacrosse; Assistant Coach: Football	James A. Grube, A.B. (1978)
Coach: Football, Tennis	Michael G. Heinecken, B.S., M.Ed. (1973)
Coach: Women's Basketball, Field Hockey, Lacrosse	Carson Lessels, B.S. (1977)
Coordinator of Women's Athletics; Physical Education Director; Director of Intramurals	Mary E. Lick, A.B., M.S. (1956)
Coach: Soccer, Women's Squash; Assistant Coach: Tennis	Ronald W. McEachen, B.S. (1974)
Physical Therapist	Susan E. Murphy (Mrs.), A.B. (1976)
Assistant Coach: Skiing (seasonal)	Peter D. Ord, A.B. (1977)
Coach: Basketball, Spring Golf; Women's Soccer	Russell L. Reilly, A.B., M.Ed. (1977)

Assistant Coach: Women's Lacrosse, Women's Tennis	Gail Smith, A.B. (1977)
Coach: Track; Assistant Coach: Football	Robert L. Smith, A.B., M.A. (1979)
Assistant Coach: Field Hockey	Judy Taylor, B.S. (1977)
Athletic Trainer	Richard W. Waterman (1956)

LANGUAGE SCHOOLS, BREAD LOAF

Director of the Italian School	Clavio F. Ascari, D.Lett. (1978)
Director of the Russian School	Robert L. Baker, Ph.D. (1967)
Director of the School in Italy: Florence	Anna L. Barsanti (1976)
Administrative Director of the Bread Loaf Writers' Conference	Stanley P. Bates, Ph.D. (1971, 1978)
Director of the School in the Soviet Union: Moscow	Jane A. Miller, M.A. (1979)
Director of the Spanish School	Eduardo Camacho, Ph.D. (1972)
Director of the French School	Jean Carduner, Ph.D. (1971)
Director of the Chinese School	Ta-Tuan Ch'en, Ph.D. (1967, 1976)
Dean of the Chinese and Japanese Schools	Nicholas R. Clifford, Ph.D. (1972)
Director of the Bread Loaf School of English	Paul M. Cubeta, Ph.D. (1952, 1964),
Dean of the German School	Thomas Huber, Ph.D. (1971)
Director of the School in France: Paris	Bethany Ladimer, Ph.D. (1979)
Director of the Japanese School	Seiichi Makino, Ph.D. (1977)
Dean of French School	Nancy M. O'Connor, Ph.D. (1978),
Director of the Bread Loaf Writers' Conference	Robert Pack, M.A. (1964, 1972)
Director of the Language Schools	Roger M. Peel, Ph.D. (1969, 1973)
Director of the German School	Gérard Schneilin, Doctorat d'Etat (1971)
Dean of the Spanish School	Jon B. Strolle, Ph.D. (1976)
Director of the School in Germany: Mainz	Ellen B. Summerfield, Ph.D. (1977)
Dean of the Italian School	Gloria V. Vaglio, M.A. (1976, 1977)
Director of the School in Spain: Madrid	Eduardo Camacho Ph.D. (1972)

The Faculty (1979-80)

OLIN C. ROBISON, A.B., Baylor; D.PHIL., Oxford, LL.D., Baylor
President, and Professor of Political Science (1975)

NICHOLAS R. CLIFFORD, A.B., Princeton; M.A., PH.D., Harvard
Vice President for Academic Affairs (1979), William R. Kenan, Jr. Professor of History (1966)

ROGER M. PEEL, A.B., University of Manchester, England; PH.D., Yale
Vice President for Foreign Languages (1978), Director of Middlebury Language Schools (1973), Jean Thomson Fulton Professor of Spanish (1969)

JOHN SPENCER, A.B., Princeton; M.A., PH.D., Columbia
Dean of the College (1977), Associate Professor of History (1974), on leave winter and spring terms 1979-80

STEVEN C. ROCKEFELLER, A.B., Princeton; B.D., Union Theological Seminary; PH.D., Columbia
Acting Dean of the College (winter and spring terms 1979-80), Associate Professor of Religon (1971)

ROGER H. MARTIN, A.B., Drew, B.D., Yale; D.PHIL., Oxford
Executive Assistant to the President (1978), Assistant Secretary of the Corporation (1977), Associate Director of Development with rank of Assistant Professor of History (1976)

RUSSELL J. LENG, A.B., Middlebury; PH.D., American University
Dean of Sciences (1977), Professor of Political Science (1966)

EDWARD S. PERRY, A.B., Baylor; M.A., PH.D., University of Iowa
Dean of Arts and Humanities (1978); Professor of Theatre (1978)

EVE ADLER, A.B., Queens College; M.A., Brandeis, PH.D., Cornell
Assistant Professor of Classics (1977)

TERRY L. ALDRICH, B.S., St. Lawrence
Instructor in Physical Education (1975)

GLENN M. ANDRES, B.ARCH., Cornell; M.F.A., PH.D., Princeton
Associate Professor of Art (1970)

ALICIA ANDREU, A.B., Chapman; M.A., Wisconsin
Assistant Professor of Spanish (1976)

DAVID H. ANDREWS, A.B., Ohio Wesleyan; M.A., PH.D., Cornell
Professor of Anthropology (1968)

ALEXANDRA BAKER, A.B., Hunter; M.A., Indiana
Lecturer in Russian (1972)

DWIGHT D. BAKER, B.S., The Defiance College; M.A., Harvard
Instructor in Biology (1979)

LYNNE RUDDER BAKER, A.B., M.A., PH.D., Vanderbilt
Associate Professor of Philosophy (1976), on leave 1979-80

ROBERT L. BAKER, A.B., Colorado; M.A., PH.D., Michigan
Professor of Russian (1967), Director of the Russian School (1967)

BREWSTER BALDWIN, A.B., Williams; M.A., PH.D., Columbia
Professor of Geology (1958), on leave winter and spring terms 1979-1980

MIREILLE BARBAUD, University of Paris X
Instructor in French (part-time) and Directress of Le Chateau (1979)

SIMON BARENBAUM, PH.D., Brown
George Adams Ellis Professor of French (1970)

STANLEY P. BATES, A.B., Dartmouth; A.B., M.A., Oxford; M.A., PH.D., Harvard
Associate Professor of Philosophy (1971), Administrative Director of the Bread Loaf Writer's Conference (1978)

HORACE P. BECK, A.B., PH.D., University of Pennsylvania
Professor of American Literature (1956)

WILLIAM H. BECKMANN, B.S., Davidson College; M.A., Cornell
Visiting Instructor in Mathematics (1977)

DAVID A. BENNETT, B.S., Muskingum; M.A.T., Northwestern; PH.D., Cornell
Assistant Professor of Chemistry (1974), on leave 1979-81

JOHN DAVID BERNINGHAUSEN, A.B., University of Minnesota; M.A., Stanford
Assistant Professor of Chinese (1976)

JOHN ANTHONY BERTOLINI, A.B., Manhattan; M.A., PH.D., Columbia
Assistant Professor of English (1975)

DAVID M. BETHEA, A.B., Washington and Lee; M.S., Georgetown; M.PHIL., PH.D., University of Kansas
Assistant Professor of Russian (1977), on leave 1979-80

THOMAS R. BEYER, JR., B.S., Georgetown; M.A., PH.D., University of Kansas
Assistant Professor of Russian (1975)

RONALD R. BIELLI, B.S., M.A., University of Vermont
Professor of Mathematics (1956)

ROBERT J. BOYLE, A.B., Princeton; M.PHIL., Yale
Instructor in Physics (1978)

DAVID A. BUMBECK, B.F.A., Rhode Island School of Design; M.F.A., Syracuse
Associate Professor of Art (1968)

KITTY C. CALAVITA, A.B., M.A., University of Delaware
Instructor in Sociology (1979)

RAYMOND FRANCIS CARNEY, JR., A.B., Harvard; PH.D., Rutgers
Assistant Professor of English (1978)

WILLIAM B. CATTON, A.B., M.A., University of Maryland; PH.D., Northwestern
Charles A. Dana Professor of History (1964), on leave 1979-80

GREGORY CHIANG KUEI-KE, A.B., National Taiwan University
Lecturer in Chinese (1976)

ROBERT R. CHURCHILL, B.S., Northern Illinois University; M.S., Illinois University
Instructor in Geography (1978)

DAVID A. CLAGUE, A.B., University of California, Santa Barbara; PH.D., Scripps Institution of Oceanography
Assistant Professor of Geology (1975), on leave 1979-81

MICHAEL PAUL CLAUDON, A.B., University of California, Berkeley; PH.D., Johns Hopkins
Associate Professor of Economics (1970)

DALE COCKRELL, A.B., M.M., PH.D., University of Illinois
Assistant Professor of Music (1979)

RAYMOND A. COISH, B.S., Memorial University of Newfoundland; PH.D., University of Western Ontario
Visiting Assistant Professor of Geology (1979)

PATRICK J. COONEY, B.S., Fordham; M.A., PH.D., State University of New York, Stony Brook
Assistant Professor of Physics (1972)

RICHARD CORNWALL, A.B., Princeton; PH.D., University of California, Berkeley
Associate Professor of Economics (1977)

THOMAS COOPER COX, A.B., Kansas University; M.A., Princeton
Instructor in History (1976)

JOHN V. CRAVEN, A.B., Bowdoin; M.A., University of Colorado; PH.D., Syracuse
Professor of Economics (1956)

PAUL M. CUBETA, A.B., Williams; PH.D., Yale
College Professor of Humanities (1952); Director of the Bread Loaf School of English (1964)

THOMAS A. DAVIES, A.B., M.A., PH.D., Cambridge
Assistant Professor of Geology (1975)

STEPHEN DONADIO, A.B., Brandeis; M.A., The Sorbonne; PH.D., Columbia
Associate Professor of American Literature (1977)

MURRAY P. DRY, A.B., M.A., PH.D., University of Chicago
Associate Professor of Political Science (1968)

ANDREW B. DUNHAM, A.B., Haverford; M.A., University of Chicago
Resident in Political Science with rank of Lecturer (1978)

M. DAVID ECKEL, A.B., Harvard; M.A., Oxford
Instructor in Religion (1978)

JOHN CLARK ELDER, A.B., Pomona; PH.D., Yale
Assistant Professor of English (1973)

JOHN DAVID EMERSON, A.B., University of Rochester; M.S., PH.D., Cornell
Assistant Professor of Mathematics (1973)

MAUREEN L. EVANS, A.B., College of Mt. St. Vincent; M.A., Boston College and Columbia; ED.D., Columbia
Director of Teacher Education with rank of Associate Professor (1978)

ALBERT HUNTER EWELL, JR., A.B., Haverford; PH.D., New York University
Professor of Psychology (1952)

EMORY M. FANNING, B.M., Oberlin; M.M., Illinois; MUS.A.D., Boston University
Professor of Music (1967)

GIUSEPPE FAUSTINI, A.B., Immaculate Conception; M.A., Middlebury
Instructor in Italian (1977)

ROBERT L. FERM, A.B., College of Wooster; B.D., Yale Divinity School; PH.D., Yale
Professor of Religion (1964-65, 1969)

JUERGEN FLECK, Eberhard-Karls University; M.A., State University of New York, Stony Brook
Instructor in Economics (1979)

WENDELL F. FORBES, A.B., Middlebury
Assistant Professor of Physical Education (1962)

DUANE M. FORD, A.B., Middlebury
Instructor in Physical Education (1978)

PHILLIP L. FRANKLAND, B.S., Southern Illinois University; M.A., University of Iowa
Instructor in Geography (1979)

THOMAS M. GAVIN, A.B., M.A., University of Toledo
Assistant Professor of English (1975)

DAVID S. GEORGE, A.B., M.A., University of Minnesota
Instructor in Spanish (1978)

JANET GILBERT, A.B., Douglas College; M.A., Villa Schifanoia
Visiting Instructor in Music (1979)

WILLIAM E. GLASSLEY, A.B., University of California, LaJolla; M.S., PH.D., University of Washington
Assistant Professor of Geology (1976)

ROBERT WILLARD GLEASON, A.B., Middlebury; PH.D., Massachusetts Institute of Technology
Professor of Chemistry (1960)

BARRY J. GLICK, A.B., SUNY at Buffalo; M.R.P., Cornell
Resident in Geography with rank of Lecturer (1978)

ROBERT K. GOULD, B.S., University of Maine; M.S., PH.D., Brown
Professor of Physics (1968)

JOAN TOWNE GREINER, B.S., Skidmore; M.S., Smith
Professor of Physical Education (1960)

JAMES C. GRIESHEIMER, B.M., B.S., Ohio State University; M.M., Arizona State University
Instructor in Music (1976)

JAMES A. GRUBE, A.B., University of Delaware
Instructor in Physical Education (1978)

RUDOLF K. HAERLE, JR., A.B., Dartmouth; M.A., PH.D., University of Chicago
Professor of Sociology (1962-66, 1967)

PERRY O. HANSON, III, A.B., Middlebury; M.S., PH.D., Northwestern
Assistant Professor of Geography (1978)

SUSAN E. HANSON, A.B., Middlebury; M.S., PH.D., Northwestern
Adjunct Assistant Professor of Geography (1978)

GRANT H. HARNEST, A.B., Knox; PH.D., University of Virginia
Irene Heinz and John LaPorte Given Professor in Pre-Medical Sciences (1975), Professor of Chemistry (1943)

WILLIAM HARRIS, A.B., PH.D., Harvard
Associate Professor of Classics (1956), on leave fall and winter terms 1979-80

ROBERT M. HATHAWAY, A.B., M.A., Wake Forest; PH.D., University of North Carolina
Visiting Assistant Professor of History (1979)

URSULA MARGARETE HEIBGES, A.B., Catholic University of America; M.A., Columbia; PH.D., Bryn Mawr
Associate Professor of Classics (1961)

MICHAEL GEORGE HEINECKEN, B.S., M.ED., University of Delaware
Assistant Professor of Physical Education (1973)

SHEILA HICKS, B.F.A., M.F.A., Yale
Visiting Johnson Professor of Art (winter term 1979-80)

ROBERT WEBBER HILL, JR., A.B., M.A., PH.D., Harvard
Professor of English (1966), on leave fall and winter terms 1979-80

DANA HOLBY, B.F.A., Boston Conservatory of Music; M.F.A., Connecticut College
Assistant Professor of Dance (1976)

DAVID H. HOLMBERG, A.B., M.A., Cornell
Visiting Instructor in Anthropology (fall term 1979-80)

THOMAS HUBER, M.A., University of Vermont; M.A., PH.D., Princeton
Professor of German (1966), Dean of the German School (1966)

John Michael Hunisak, A.B., Williams; M.A., PH.D., New York University
Associate Professor of Art (1970)

Karen Hurley, A.B., University of Oregon; M.A., Berkeley
Instructor in Theatre (spring term 1979-80)

J. Rowland Illick, A.B., Syracuse; PH.D., Harvard
Professor of Geography (1946), on leave 1978-80

Travis Beal Jacobs, A.B., Princeton; M.A., PH.D., Columbia
Professor of History (1965), on leave fall and winter terms 1979-80

H. W. Janson, M.A., PH.D., Harvard
Visiting Johnson Professor of Art (fall term 1979-80)

John Keeler, A.B., University of Southern California; M.A., PH.D., Harvard
Assistant Professor of Political Science (1977)

Constance N. Kenna, A.B., Elmira; M.A., Yale
Lecturer in German (part-time) (1978)

Joanne Klein, A.B., M.A., University of California, Berkeley
Instructor in Theatre (1977)

Edward C. Knox, A.B., Wesleyan; PH.D., Yale
Professor of French (1969), on leave 1979-80

James Allan Krupp, B.S., M.A., PH.D., University of Washington
Director of Academic Computing with rank of Associate Professor (1973)

Peter Kubelka, Centro Sterimentale di Cinematografia
Visiting Johnson Professor of Art (spring term 1979-80)

Bethany Ladimer, A.B., Barnard; M.A., PH.D., Columbia
Visiting Assistant Professor of French (1977), Director of the School in France, Paris (1979)

Marjorie E. Lamberti, A.B., Smith; M.A., PH.D., Yale
Professor of History (1964)

C. Randall Landgren, A.B., Albion College; M.A., PH.D., Harvard
Assistant Professor of Biology (1977)

Michele R. LaRusch, A.B., California State University, Northridge; M.A., UCLA
Visiting Instructor in Philosophy (1979)

G. Thomas Lawson, B.S., Springfield College
Professor of Physical Education (1969), Director of Athletics (1977)

Carson W. Lessels, B.S., Springfield College
Instructor in Physical Education (1977)

Mary E. Lick, A.B., Lake Erie; M.S., Smith
Professor of Physical Education (1956), Director of Physical Education (1974)

David J. Littlefield, A.B., Spring Hill; M.A., PH.D., Yale
Philip Battell Stewart and Sarah Frances Cowles Stewart Professor of English (1953-56, 1959)

David A.J. Macey, A.B., Brooklyn College; M.A., M.PHIL., PH.D., Columbia
Assistant Professor of History (1978)

Elizabeth R. Mansfield, A.B., M.F.A., PH.D., Cornell
Assistant Professor of English (1978)

Edward Alexander Martin, A.B., Princeton; M.A., PH.D., Columbia
Professor of English (1961)

Robert P. Martin, B.S., M.S., Central Connecticut State; M.A., PH.D., University of Maryland
Assistant Professor of Mathematics (1976), on leave fall and winter terms 1979-80

JOHN M. MCCARDELL, JR., A.B., Washington and Lee; PH.D., Harvard
Assistant Professor of History (1976)

DUNCAN J. MCDONALD, B.S., McGill; M.A., Harvard
Professor of Biology (1967)

NEIL E. MCDONELL, A.B., University of Michigan; PH.D., Harvard
Assistant Professor of Philosophy (1979)

RONALD WRIGHT MCEACHEN, B.S., West Virginia University
Instructor in Physical Education (1974)

JAMES P. MCGOUGH, A.B., University of Washington; M.A., PH.D., Michigan State
Assistant Professor of Anthropology (1976), on leave fall and winter terms 1979-80

JOHN P. MCWILLIAMS, JR., A.B., Princeton; M.A., PH.D., Harvard
Professor of American Literature (1977)

JANE A. MILLER, A.B., Macalester College; M.A., University of Michigan
Instructor in Russian (1978); Director of the School in Russia, Moscow (1979)

THOMAS E. MOISAN, A.B., Holy Cross; M.A., PH.D., Harvard
Assistant Professor of English (1977)

WALTER A. MOYER, JR., B.S., Philadelphia College of Pharmacy; PH.D., University of Delaware
Professor of Chemistry (1951-71), Associate Dean of the College for Special Admissions and Director of Career Counseling and Placement (1971)

ELIZABETH NAPIER, A.B., Kalamazoo College; M.A., PH.D., University of Virginia
Visiting Assistant Professor of English (fall term 1979-80) (1978)

ERIC G. NELSON, A.B., University of Illinois; M.A., M.F.A., University of Iowa
Assistant Professor of Art (1978)

MARGARET K. NELSON, A.B., Swarthmore; PH.D., Columbia
Assistant Professor of Sociology (1975)

PAUL E. NELSON, A.B., Augustana; M.A., PH.D., University of Chicago
Professor of Political Science (1963)

FRED F. NEUBERGER, A.B., Middlebury
Director of Admissions (1955)

VICTOR LAWRENCE NUOVO, A.B., Hope; B.D., New Brunswick Theological Seminary; PH.D., Columbia
Professor of Philosophy (1962), on leave winter and spring terms 1979-80

JANE MARGARET O'BRIEN, A.B., Vassar
Visiting Instructor in Chemistry (spring term 1979-80)

NANCY M. O'CONNOR, A.B., Swarthmore; PH.D., Cornell
Assistant Professor of French (1977), Dean of the French School (1978)

JUDITH OLINICK, A.B., University of Michigan; PH.D., University of Wisconsin
Lecturer in Russian (part-time) (1978)

MICHAEL OLINICK, A.B., University of Michigan; M.A., PH.D., University of Wisconsin
Associate Professor of Mathematics (1970)

BOBBY OSBORNE, B.S., University of Tennessee; PH.D., McMaster University
Assistant Professor of Psychology (1979)

ROBERT PACK, A.B., Dartmouth; M.A., Columbia
Julian W. Abernethy Professor of American Literature (1964); Director of the Bread Loaf Writers' Conference (1972)

GAYLE R. PEMBERTON, A.B., University of Michigan; M.A., Harvard
Instructor in American Literature (1977)

Bruce Bigelow Peterson, A.B., Middlebury; PH.D., Syracuse
Professor of Mathematics (1962)

Frank Pike, JR., A.B., Rutgers; M.A., University of Minnesota
Resident in Theatre with rank of Lecturer (1978)

Edwin L. Pool, B.S., PH.D., Iowa State
Professor of Chemistry (1954)

Chandler Armstrong Potter, A.B., Amherst, M.F.A., Yale
Professor of Drama (1956), Director of the Theatre (1976)

David Price, A.B., Amherst; M.A., PH.D., Princeton
Associate Professor of English (1970)

Henry B. Prickitt, A.B., Amherst; PH.D., Harvard
Henry Norman Hudson Professor of English (1948)

Martine Prieto, M.A., The Sorbonne
Visiting Instructor in French (1977)

Réne Prieto, M.A., The Sorbonne
Instructor in French (1977)

David Langdon Prouty, A.B., Colgate; PH.D., Tulane
Professor of Psychology (1959)

Robert F. Reiff, A.B., University of Rochester; PH.D., Columbia
Professor of Art (1958)

Russell L. Reilly, A.B., Bates; M.ED., Boston University
Instructor in Physical Education (1977)

Mark Rendleman, A.B., University of Washington; M.F.A., University of California, Santa Barbara
Assistant Professor of Art (1977)

Marc Riess, A.B., SUNY at Stony Brook; M.A., PH.D., University of Florida
Assistant Professor of Psychology (1978)

Carol Rifelj, A.B., M.A., PH.D., Wisconsin
Associate Professor of French (1972)

E. Kirk Roberts, A.B., Earlham; PH.D., Harvard
Professor of Chemistry (1952)

Dori S. Rockefeller, A.B., High Point College; M. Div., Union Theological Seminary; M.A., Columbia
Lecturer in Teacher Education (1978)

Thomas M. Root, B.S., University of Detroit; M.S., University of Wyoming
Instructor in Biology (1979)

David A. Rosenberg, B.S., University of Pennsylvania; M.P.A., PH.D., Cornell
Assistant Professor of Political Science (1972)

Ronald E. Rucker, A.B., Pomona; M.A., Harvard; M.L.S., University of California, Berkeley
Librarian with rank of Professor (1976)

George B. Saul, II, A.B., M.A., PH.D., University of Pennsylvania
Charles A. Dana Professor of Biology (1967)

Lee M. Sands, A.B., City College of New York; M.A., Harvard
Instructor in History (1979)

Charles Powell Scott, A.B., Ohio State; B.D., Princeton Theological Seminary
Chaplain and Professor of Religion (1951)

2214

ALAN SMITH, A.B., London University; M.A., Indiana University
Visiting Assistant Professor of Russian (1979)

DAVID K. SMITH, A.B., Middlebury; PH.D., Harvard
Alumni Professor of Economics (1950)

ROBERT L. SMITH, A.B., University of Delaware; M.A., University of Maine, Orono
Instructor in Physical Education

PAUL MARTIN SOMMERS, A.B., University of California, Santa Cruz; M.A., University of Michigan; PH.D., University of California, San Diego
Assistant Professor of Economics (1976)

M. KIMBERLY SPARKS, A.B., PH.D., Princeton
Charles A. Dana Professor of German (1966)

DOUGLAS C. SPRIGG, A.B., M.A., PH.D., University of Michigan
Assistant Professor of Drama (1975), on leave winter and spring terms 1979-80

JON M. STROLLE, A.B., Oberlin; M.A., PH.D., Wisconsin
Assistant Professor of Spanish (1976), Dean of the Spanish School (1976)

ELLEN B. SUMMERFIELD, A.B., University of Pennsylvania; M.A., PH.D., University of Connecticut
Assistant Professor of German (1975), Director of the School in Germany, Mainz (1977)

BETSY K. THURBER, A.B., University of Vermont
Lecturer in Teacher Education (part-time) (1972)

HARRIS E. THURBER, A.B., University of Vermont; PH.D., Princeton
Professor of Political Science (1947-49, 1951)

PARDON E. TILLINGHAST, A.B., Brown; PH.D., Harvard
Charles A. Dana Professor of History (1947)

GEORGE B. TODD, A.B., Amherst; M.B.A., Stanford; M.F.A., Princeton
Professor of Music (1965), on leave 1979-80

GLORIA V. VAGLIO, A.B., Adelphi; M.A., Middlebury
Lecturer in Italian (part-time), Assistant to Director of Language Schools and Vice President for Foreign Languages, Dean of the Italian School (1976)

VAN HORN VAIL, A.B., University of Washington; M.A., PH.D., Princeton
Professor of German (1966)

ROBERTO A. VÉGUEZ, B.S., Columbia; M.A., PH.D., Wisconsin
Assistant Professor of Spanish (1972)

JAN DAVID WALD, A.B., Northeastern; PH.D., Brandeis
Assistant Professor of Philosophy (1976), on leave 1979-80

CHRISTOPHER D. WATTERS, B.S., Notre Dame; M.A., PH.D., Princeton
Professor of Biology (1968)

HUGH GRANT WHEELER, A.B., Maryland; M.A., PH.D., University of Michigan
Assistant Professor of Political Science (1976)

CHRISTOPHER WILSON, A.B., Illinois Wesleyan; M.A.R., Yale Divinity; M.A., Yale; M.PHIL., Yale
Instructor in Art (1979)

P. FRANK WINKLER, JR., B.S., California Institute of Technology; M.A., PH.D., Harvard
Associate Professor of Physics (1969), on leave 1979-80

KLAUS HEINRICH WOLFF, A.B., Wabash; PH.D., University of Chicago
Professor of Economics (1956)

RICHARD L. T. WOLFSON, A.B., Swarthmore; M.S., University of Michigan; PH.D., Dartmouth
Assistant Professor of Physics (1976)

Erica B. Wonnacott, a.b., Drew; m.a., Columbia
Dean of Students (1970)

Howard Eugene Woodin, b.s., m.s., Union; ph.d., Purdue
Professor of Biology (1953)

Steven B. Young, a.b., Middlebury; m.s., University of Alaska; ph.d., Harvard
Adjunct Professor of Biology (1977)

Thomas R. Yuster, b.s., Stanford; m.s., University of Wisconsin
Instructor in Mathematics (1979)

Carol Zuses, a.b., Cornell
Visiting Instructor in French (1979)

Assistants In Instruction

Leslie Eckel
Assistant in Teacher Education (part-time) (1978)

Susanne Jantke
Assistant in German (part-time) (1979)

Wayne Scott, a.b., Middlebury
Assistant in Biology (1978)

Patty Smith
Assistant in Dance (part-time) (1978)

Eunice H. Van Vleck, a.b., Vassar
Assistant in Teacher Education (1974)

Harold Peter Wimmer, a.b., m.s., Lehigh
Assistant in Biology (1972)

Emeriti

John Thayer Andrews, a.b., m.a.
Professor Emeritus of Philosophy (1936); Emeritus, 1971

James Isbell Armstrong, a.b., ph.d., ll.d., litt.d., l.h.d.
President Emeritus, and Professor Emeritus of Classics (1963); Emeritus, 1975

Donald Henry Ballou, a.b., ph.d.
Charles A. Dana Professor Emeritus of Mathematics (1942); Emeritus, 1973

Douglas Stow Beers, ph.d.
Hudson Professor Emeritus of English (1925); Emeritus, 1963

Leslie Cole Bigelow, a.b., ph.d.
Professor Emeritus of Philosophy (1952); Emeritus, 1978

Léa Zoé Binand, Brevet Supérieur
Assistant Professor Emerita of French (1929); Emerita, 1956.

Claude L. Bourcier, Agrécé de L'Université
Alumni Professor Emeritus of French (1937); Emeritus, 1975

JOHN GERALD BOWKER, ED.M., L.H.D.
Baldwin Professor Emeritus of Mathematics (1926), Dean Emeritus of the Faculty (1953); Emeritus, 1967

ARTHUR MILTON BROWN, A.B.
Professor Emeritus of Physical Education (1918); Emeritus, 1956

PHILIP W. CARRUTH, A.B., M.A., PH.D.
Professor Emeritus of Mathematics (1966); Emeritus, 1976

PIERINA B. CASTIGLIONE, M.A., DOTTORE IN LETTERE
Lecturer Emerita in Italian (1972); Emerita, 1975

SALVATORE J. CASTIGLIONE, A.B., PH.D.
Jean Thomson Fulton Professor Emeritus of Italian (1966); Emeritus, 1975

JOHN H. CLAGETT, B.S., PH.D.
Professor Emeritus of English (1955); Emeritus, 1978

RICHARD W. COLMAN, JR., A.B., M.A.
Professor Emeritus of Physical Education, Director Emeritus of Athletics (1968); Emeritus 1977

REGINALD L. COOK, A.B., M.A., LITT.D.
Charles A. Dana Professor Emeritus of American Literature 1929; Emeritus, 1969

STEPHEN ALBERT FREEMAN, PH.D., LL.D., L.H.D., LITT.D.
Professor Emeritus of French (1925), Vice President Emeritus (1943), Director Emeritus of the Language Schools (1946); Emeritus, 1963

HAROLD BRADFORD HITCHCOCK, A.B., PH.D.
Mead Professor Emeritus of Biology (1943); Emeritus, 1968

CHARLES LEONARD HOAG, A.B., M.A., PH.D.
Alumni Professor Emeritus of Political Science (1947); Emeritus, 1972

MARION E. HOLMES, A.B.
Secretary Emerita of the Faculty (1937); Emerita, 1977

ELIZABETH B. KELLY, A.B.
Dean Emerita of Women (1946); Emerita, 1970

HOWARD MCCOY MUNFORD, B.S., PH.D.
Charles A. Dana Professor Emeritus of American Literature (1941); Emeritus, 1977

WALTER J. NELSON, B.S.
Professor Emeritus of Physical Education (1932-36, 1946); Emeritus, 1972

WERNER NEUSE, PH.D., LITT.D.
Professor Emeritus of German (1932); Emeritus, 1966

BERTHE O. NORMANO
Lecturer Emerita in Russian (1960); Emerita, 1966

J. WILBER SMITH
Assistant Treasurer Emeritus (1926); Emeritus, 1972

ERIE T. VOLKERT, A.B., M.A.
Professor Emeritus of Drama (1941); Emeritus, 1976

BENJAMIN FRANKLIN WISSLER, B.S., M.A., D.SC.
Alumni Professor Emeritus of Physics (1930); Emeritus, 1970

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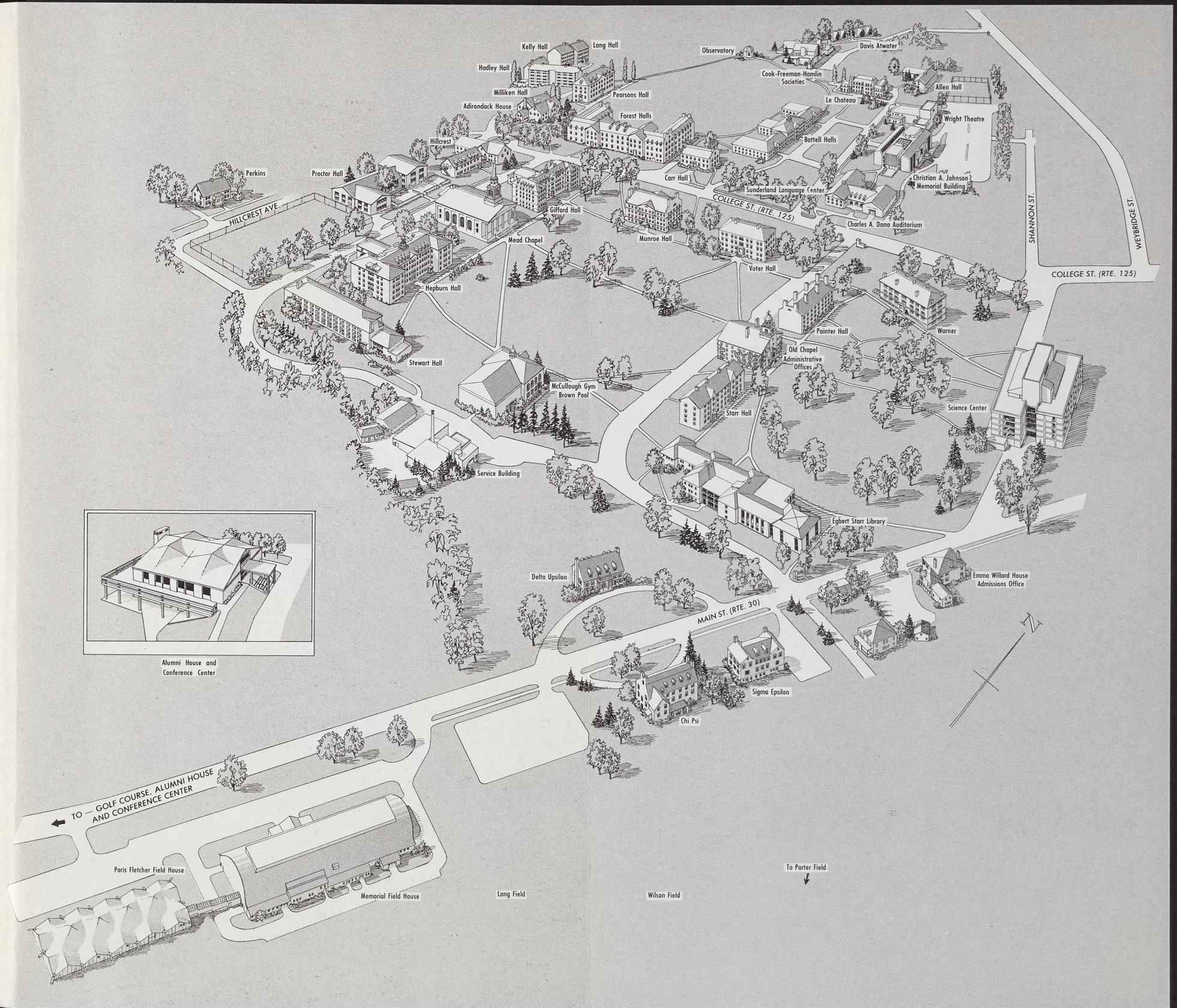
Programs and courses in this catalog are subject to change without notice.

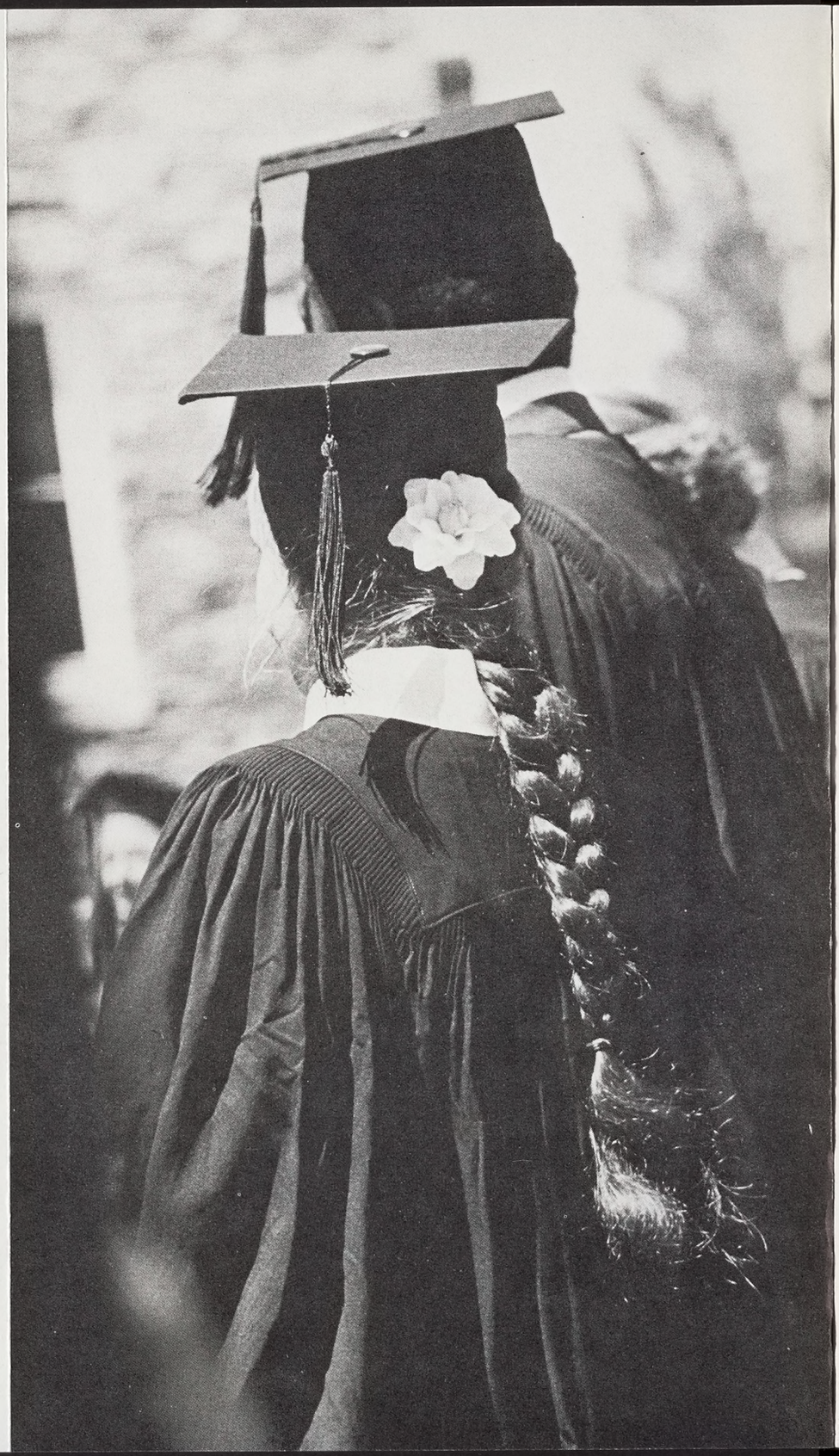
College Calendar, 1979-81

1979 (Official)		*1980 (Proposed)*
Sept. 5	Freshman Week begins	Sept. 3
Sept. 9	Sunday, Convocation (11 a.m.)	Sept. 7
Sept. 10	Monday, Fall Term Classes begin (8 a.m.)	Sept. 8
Oct. 13	Homecoming	Oct. 11
Oct. 22-23	Mid-Term Recess	Oct. 6-7
Oct. 27	Parents' Weekend	Oct. 18
Nov. 8	College Meeting Night	Nov. 20
Nov. 20	Thanksgiving Recess begins (5 p.m.)	Nov. 25
Nov. 26	Classes resume (8 a.m.)	Dec. 1
Dec. 8	Fall Term Classes end (12 noon)	Dec. 6
Dec. 10	Reading Period begins	Dec. 8
Dec. 13	Final Examinations begin	Dec. 11
Dec. 18	Final Examinations end, Christmas Recess begins	Dec. 16

1980 (Official)		*1981 (Proposed)*
Jan. 9	Winter Term begins (8 a.m.)	Jan. 12
Jan. 18-20	Black Cultural Weekend	Jan. 16-18
Jan. 25-27	Alumni Winter Weekend	Jan. 23-25
Feb. 8	Winter Term ends (12 noon), Winter Recess begins	Feb. 11
Feb. 18	Spring Term Classes begin (8 a.m.)	Feb. 16
Feb. 28	Winter Carnival Recess begins (5 p.m.)	Feb. 26
March 3	Classes resume (8 a.m.)	March 2
April 5	Spring Recess begins (12 noon)	April 4
April 14	Classes resume (8 a.m.)	April 13
April 24	College Meeting Night	April 23
May 17	Spring Term Classes end (12 noon)	May 16
May 19	General Examinations and Reading Period begin	May 18
May 22	Final Examinations begin	May 21
May 27	Final Examinations end	May 26
May 31	Baccalaureate	May 30
June 1	Commencement	May 31
June 6-8	Spring Reunions	June 5-7
June 14-Aug. 16	Language Schools	June 13-Aug. 15
June 25-Aug. 9	Bread Loaf School of English	June 24-Aug. 8
Aug. 12-24	Bread Loaf Writers' Conference	Aug. 11-23


Kelly Hall
Lang Hall
Observatory
Davis Atwater
Hadley Hall
Cook-Freeman-Hamlin Societies
Allen Hall
Milliken Hall
Pearsons Hall
Le Chateau
Adirondack House
Forest Halls
Wright Theatre
Hillcrest
Battell Halls
Perkins
Proctor Hall
Carr Hall
Christian A. Johnson Memorial Building
Sunderland Language Center
HILLCREST AVE.
COLLEGE ST. (RTE. 125)
Gifford Hall
Charles A. Dana Auditorium
SHANNON ST.
WEYBRIDGE ST.
Mead Chapel
Munroe Hall
Voter Hall
COLLEGE ST. (RTE. 125)
Hepburn Hall
Painter Hall
Warner
Stewart Hall
Old Chapel Administrative Offices
McCullough Gym
Brown Pool
Starr Hall
Science Center
Service Building
Egbert Starr Library
Alumni House and Conference Center
Delta Upsilon
Emma Willard House Admissions Office
MAIN ST. (RTE. 30)
Sigma Epsilon
Chi Psi
TO — GOLF COURSE, ALUMNI HOUSE AND CONFERENCE CENTER
Paris Fletcher Field House
To Porter Field
Memorial Field House
Lang Field
Wilson Field

CAMPUS MAP



DIRECTIONS FOR CORRESPONDENCE

For information about:		*Telephone Number Area Code 802*
Admissions	Director of Admissions, Emma Willard House	388-4929
Alumni Affairs	Director of Alumni Relations, Forest Hall	388-7937
Athletics	Director of Athletics, Memorial Field House	388-7923
Business Matters	Associate Treasurer, Service Building	388-7944
Career Counseling and Placement	Director of Career Counseling and Placement, Adirondack House	388-4923
General Information	Student Activities Director	388-2663
Gifts and Bequests	Director of Development, Forest Hall	388-6762
Educational Program	Dean of the College, Old Chapel	388-2858
Financial Aid	Director of Financial Aid, Emma Willard House	388-2849
Health of Student	Medical Director, George F. Parton, Jr. Infirmary	388-2171
Language Schools Abroad	Director of Language Schools, Sunderland Language Center	388-7879
Payment of Bills	Comptroller, Old Chapel	388-7145
Summer Schools:		
Bread Loaf School of English, Old Chapel		388-7662
Bread Loaf Writers' Conference, Munroe Hall		388-4167
Foreign Language Schools, Sunderland Language Center		388-7973
Student Information	Dean of Students, Old Chapel	388-7951

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